El Monte VISION ZERO

Action Plan



Acknowledgements

City of El Monte

Sal Melendez, Public Works & Utilities Director

Lee Torres, City Engineer

Sarah Zadok, Transportation Operations Manager

Steven Wright, Consulting Traffic Engineer

Kevin Ko, Project Manager

Southern California Association of Governments

Courtney Aguirre, Program Manager II

KTUA Landscape Architecture and Planning

Joe Punsalan, Principal

Tom Bertulis, Senior Associate, Project Manager

Alex Samarin, Associate

Darren Jacobsen, Associate

Marissa Tietz, Planner

Jorge Nozot, Planner











Circulate San Diego

Colin Parent, Executive Director

Dara Braitman, Director of Planning

Octavio Garcia, Planner

Evari GIS

Brian Gaze, Director of Business Development Josh Edge, Senior Project Manager

Technical Advisory Committee Members

Andrew Yip, ActiveSGV

Cuong Trinh, Caltrans

Danny Arellano, Caltrans and El Monte Resident

Dina Garcia, Access Services

Edward Duong, Active SVG and El Monte Resident

Elizabeth Christy, Eco Urban Gardens

Frank Serna, El Monte City School District

George Schonborn, Mountain View School District

Hector Delgado, El Monte Union High School District

Jose Herrera, El Monte City School District

Nancy Lee, City of El Monte

Table of Contents

Id	ble of Contents	
LS	Executive Summary ES.1 Purpose	ES3 ES4 ES4
	Introduction 1.1 Traffic Safety in El Monte	2 3 4 4

(12	Ex	isting Conditions	11
•		2.1	Overview of El Monte	12
		2.2	Transportation Context	15
		2.3	Challenges and Opportunities	16
		2.4	Collision Summary	18
		2.5	Collision Mapping Overview	19
			Planning and Policy Context	
		2.7	Vision Zero Benchmarking	.34

03	Sta	akeholder Outreach and Engagement	39
	3.1	Stakeholder Outreach and Engagement Overview	40
	3.2	Stakeholder Outreach and Engagement Goals	40
	3.3	Stakeholder Outreach and Engagement Strategies	41
	3.4	Project Website	42
	3.5	Technical Advisory Committee	43
	3.6	Outreach Tools	44
	3.7	Outreach Events	44
	3.8	Online Survey	46

	n 4	Vis	sion, Goals, and Objectives Vision Statement	49
٦	U T	4.1	Vision Statement	50
		4.2	Goals, Objectives, and Strategies	50

05	Pro	oposed Best Practices, Policies, and	
	Pr	ograms	61
	5.1	Best Practice Policies and Programs Overview	62
	5.2	Policy Recommendations	62

กล์	lm	plementation	73
	6.1	Recommendations and Implementation Overview	74
	6.2	Prioritized Systemic Infrastructure Recommendations.	74
	6.3	Concept Designs (Cutsheets)	79
	6.4	Funding Sources	.100
	6.5	Measuring Implementation Progress with Performance	<u> </u>
	Mea	asures	115

Δ	Ар	pendix High-Injury Network Overview Outreach Materials	A-1
	A.1	High-Injury Network Overview	A-2
	A.2	Outreach Materials	A-17
		Survey Results	



List of Figures

Figure ES-1: Vision Zero vs. Traditional Safety Approach	ES2
Figure ES-2: Fatal and Severe Injuries in El Monte	ES2
Figure ES-3: Normalized Collision Index (CI)	ES3
Figure ES-4: Disadvantaged Communities	ES4
Figure ES-5: Durfee Avenue Project Sheet: Between Magne	
Street and Denholm Drive	
Figure 1-1: Collision Speed vs. Pedestrian Fatality Rate	2
Figure 1-2: Vision Zero vs. Traditional Safety Approach	
Figure 2-1: El Monte Population Growth	
Figure 2-2: Disadvantaged Communities Designation	
Figure 2-3: Communities of Concern Designation	13
Figure 2-4: Environmental Justice Areas	
Figure 2-5: Caltrans Functional Classification	
Figure 2-6: Fatal and Severe Injuries in El Monte	18
Figure 2-7: Bicyclist- and Pedestrian-Involved Collisions	18
Figure 2-8: High-Injury Network Method	19
Figure 2-9: Cumulative Fatal and Severe Injury (KSI) Netwo	ork2
Figure 2-10: Normalized Fatal and Severe Injury (KSI) Netw	ork22
Figure 2-11: Cumulative Collision Index (CI)	
Figure 2-12: Normalized Collision Index (CI)	24
Figure 2-13: Auto-Auto Collision Tree	
Figure 2-14: Auto-Auto Signalized Intersection Collisions	
Figure 2-15: Bicycle-Involved Non-Signalized Intersection	
Collisions	27
Figure 2-16: Pedestrian-Involved Signalized Intersection	
Collisions	28
Figure 2-17: Traffic Challenge Areas and Remedies	30

Figure 6-1: Sample Modification to La Madera Ave and Lower
Azusa Rd Intersection76
Figure 6-2: Superstreet example in San Diego at El Cajon Blvd/
Idaho St77
Figure 6-3: Example of Median Island Restricting Movements
at Asher St and Peck Rd in El Monte77
Figure 6-4: Recommended Vision Zero Project Locations79
Figure 6-5: Durfee Avenue Project Sheet: Between Magnolia
Street and Denholm Drive80
Figure 6-6: Bryant Road Project Sheet: Between Tyler Avenue
and Cypress Avenue82
Figure 6-7: Garvey Boulevard Project Sheet: Between Central
Avenue and Santa Anita Avenue84
Figure 6-8: Valley Boulevard Project Sheet: Between Ramona
Boulevard and North Peck Road86
Figure 6-9: Ramona Boulevard Project Sheet: Between Ferris
Road and La Madera Avenue88
Figure 6-10: Magnolia Street Project Sheet: Between Allgeyer
Avenue and Durfee Avenue90
Figure 6-11: Peck Road Project Sheet: Between Ranchito Street
and Lower Azusa Road92
Figure 6-12: Tyler Avenue Project Sheet: Between Ramona
Boulevard and Valley Boulevard94
Figure 6-13: Santa Anita Avenue Project Sheet: Between
Ranchito Street and McGirk Avenue96
Figure 6-14: Lower Azusa Road Project Sheet: Between Elrovia
Avenue and Peck Road98

List of Tables

Table 2-1: Percent of Commute Modes	15
Table 2-2: Average Commute Times (minutes) by Mode	15
Table 2-3: Functional Classification of El Monte Roadways	16
Table 2-4: California Vision Zero Projects 6 Es Takeaways	35
Table 4-1: Safety and Vision Zero Core Principals	58
Table 5-1: Goals and Policy Matrix	70
Table 6-1: Potential Countermeasures to Improve Safety ar	nd
Concept Costs	75
Table 6-2: Durfee Avenue Countermeasure Concept Costs.	8
Table 6-4: Bryant Road Countermeasure Concept Costs	83
Table 6-5: Garvey Boulevard Countermeasure Concept	
Costs	85
Table 6-6: Valley Boulevard Countermeasure Concept Cost	:s8
Table 6-7: Ramona Boulevard Countermeasure Concept	
Costs	89
Table 6-8: Magnolia Street Countermeasure Concept Cost	s.9
Table 6-9: Peck Road Countermeasure Concept Costs	93
Table 6-10: Tyler Avenue Countermeasure Concept Costs	95
Table 6-11: Santa Anita Avenue Countermeasure Concept	
Costs	9
Table 6-12: Lower Azusa Road Countermeasure Concept	
Costs	99
Table 6-13: Federal Funding Sources	
Table 6-14: State Funding Sources	.105
Table 6-15: Local / Regional Funding Sources:	114



PAGE INTENTIONALLY LEFT BLANK



Executive Summary

ES.1 Purpose

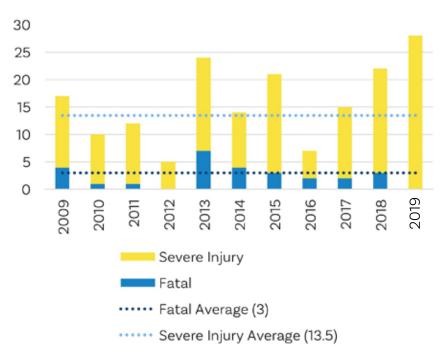
El Monte is a city east of downtown Los Angeles in the central San Gabriel Valley. The City is bisected from east to west by Interstate 10 and surrounded by other major interstate and state highways. Large arterial roads branch from this network and carry higher-speed local and regional traffic while also directly intersecting with slower-speed local streets that serve residences. Businesses, goods, and services are clustered on these arterial roads, as are some schools, city parks, and the El Monte Community Center. This transportation environment prioritizes vehicular travel, and creates a challenging and unsafe environment for non-motorized travelers. The purpose of the El Monte Vision Zero Action Plan is to provide a baseline for transportation safety conditions in El Monte, identify the road segments that are most unsafe for all road users, identify characteristics that contribute to the hazard, and present a path forward to achieve zero traffic-related deaths and serious injuries on City roadways by 2027. Vision Zero is an entirely new way to approach traffic safety, as shown in Figure ES-1.

FIGURE ES-1: Vision Zero vs. Traditional Safety Approach



El Monte averages three deaths and 13.5 severe injuries caused by traffic collisions per year. Though an annual reduction of less than one death per year is needed to meet the goal of zero traffic deaths - a rate of reduction that the City has organically seen in years past - these low-fatality years have been followed by drastic increases in fatalities. For example, there were zero traffic-related deaths in 2012 and 2019, but these years were followed by seven deaths in 2013 and six deaths in 2020 (even as 2020 data is yet to be complete). Severe injuries are increasing as well. A record number of severe injury collisions were recorded in 2019, the last full year of collision data, see Figure ES-2. This Plan recommends cost-effective transportation safety improvements that can be implemented citywide, focusing on areas with potential for high-severity collisions, to achieve zero traffic-related deaths and serious injuries.

FIGURE ES-2: Fatal and Severe Injuries in El Monte



ES.2 Analysis Methods

Collisions were quantified and mapped block by block to identify road segments for transportation safety recommendations. Existing characteristics of these "high-injury" road segments were mapped citywide to identify similar roads and intersections that were not identified using the collision-based analysis. The number of lanes, type of

medians, and intersection controls were mapped citywide to identify other possible locations for improvements. Figure ES-3 is color-coded, with the red areas showing the road segments with the highest collision rates, and the blue areas showing the road segments with lower collision rates.

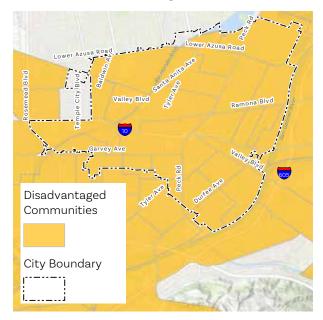
FIGURE ES-3: Normalized Collision Index (CI)



ES.3 Community Engagement

El Monte is a diverse community that falls under the definition of several environmental justice indicators, including the disadvantaged community definition of Senate Bill (SB) 5351, see Figure ES-4. Moreover, a global pandemic led to additional outreach challenges. The project undertook a lengthy and widespread community engagement process, including developing a StoryMap, an online survey, Sidewalk decals, an educational video, multiple outreach events at Farmers Markets, and meetings with the Fire Department and the Police Department. Outreach materials were provided in English, Spanish, Mandarin, and Vietnamese to increase the engagement with the community. To supplement community input, a project Technical Advisory Committee convened four times to provide direction and feedback on recommendations.

FIGURE ES-4: Disadvantaged Communities



Note: Most of El Monte meets the SB 35 metric for disadvantaged communities, mapped here in yellow by census tract. Many neighboring census tracts are also considered disadvantaged.



Outreach boards at FL Monte Farmers Market



SCAG Go Human display at El Monte Farmers Market

ES.4 Policy Recommendations

This Vision Zero plan incorporates the best practice strategies of traffic safety, commonly referred to as the "six Es." Through community outreach, consideration of existing conditions in El Monte, and review of related planning documents in the Southern California region, the following Vision Zero policies are recommended and organized by those six Es, as follows:

EDUCATION (EDU)

Policy EDU 1: Assess the potential for Safe Routes programs to Schools, to Transit and for Seniors.

Policy EDU 2: Integrate quick-build strategies to expedite traffic calming and roadway safety improvements.

ENCOURAGEMENT (ENC)

Policy ENC 1: Continue to collaborate with local partners to develop safe routes to school, parks and transit programs.

Policy ENC 2: Integrate human-centered placemaking amenities in future roadway designs.

ENFORCEMENT (ENF)

Policy ENF 1: Partner with the El Monte Police Department to develop traffic safety campaigns.



ENGINEERING (ENG)

Policy ENG 1: Introduce traffic calming measures proactively where high-severity crashes are likely to occur most frequently.

Policy ENG 2: Continue to implement existing Complete Street Policies

Policy ENG 3: Prioritize funding for Vision Zero projects and project features in the Capital Improvement Plan.

Policy ENG 4: Develop a Speed Management Plan to reduce vehicle speeds on the high-injury network.

<u>ဂိုဂို</u>ဋ္ဌိ EQUITY (EQU)

Policy EQU 1: Participate in policy reform efforts to support the safety of people walking and bicycling at the state levels.

EVALUATION (EVA)

Policy EVA 1: Develop a program to track, monitor and evaluate infrastructure and program improvements.

Policy EVA 2: Acquire data to determine most unsafe behaviors contributing to collisions.

ES.5 Project Recommendations

Project recommendations were developed with input from City staff, the Technical Advisory Committee, and the public, as well as the results from the existing conditions analysis. Treatments and recommendations to implement Vision Zero in El Monte involve a joint effort of the

six Es: Engineering, Education, Evaluation, Enforcement, Equity, and Evaluation. The implementation of proven safety countermeasures is strongly encouraged to accelerate the achievement of local, state, and national safety goals.

Ten conceptual designs were developed for the highest-ranking segments of corridors identified on the high-injury network and by the Technical Advisory Committee. The cutsheets for these ten locations are key to the implementation of safety improvements; they identify low-cost "tactical urbanism" improvements that can be implemented citywide, as well as more permanent and higher-cost solutions. Construction of some of these improvements, like bicycle facilities, can be integrated into planned construction such as resurfacing or utility work. Higher-cost projects could be required to be part of the capital improvement process to identify funding, undergo public and environmental review, and plan preparation. Planning-level cost estimates are provided for low-cost projects and permanent installations. Figure ES-5 is an example cutsheet showing design possibilities for one of the corridors.

FIGURE ES-5: Durfee Avenue Project Sheet: Between Magnolia Street and Denholm Drive



Aside from implementing projects on the corridors identified, at the heart of Vision Zero is taking a proactive approach on streets that are most likely to have high-severity collisions: multi-lane roadways along commercial corridors. Measures that can be taken include installing "Restricted Crossing Intersections" are where the minor road is limited to Right-In-Right-Out only. "Restricted Crossing Intersections" are where neither the major road nor the minor road are able to make left turns (effectively continuing a median island through the intersection), adding median islands between intersections, adding curb extensions, adding digital speed-readout signs, adding "turn wedges," and adding "hardened centerlines."

Finally, signal timing can be modified to increase safety, including coordinating the signals for slower progression times, adding No-Right-Turn-on-Red signs, adding Leading Pedestrian Intervals, and reducing the cycle length, which can reduce the pedestrian delay.

Endnote:

¹Senate Bill (SB) 535. https://oehha.ca.gov/calenviroscreen/report/calenviroscreen-40



Introduction



1.1 Traffic Safety in El Monte

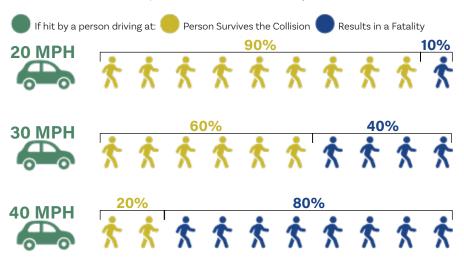
On February 21, 2017, the El Monte City Council passed a traffic safety resolution known as a "Vision Zero resolution," leading to the request to develop a "Vision Zero Action Plan" to address traffic-related fatalities and serious injuries that occur throughout the City of El Monte. This Plan resulted from that resolution. The resolution cites the "696 victims in El Monte that have been killed and injured due to motor vehicle collisions" and the "high percentage of traffic injuries and fatalities involving pedestrians, bicyclists, and other vulnerable users." It points out that "traffic fatalities are one of the leading causes of accidental death among children ages 0 to 13 in the City of El Monte." Consequently, this Plan has a significant focus on the safety of children as well as people walking and bicycling, with mitigating the impact of excessive speed being paramount to this effort.

1.2 Vision Zero Overview

This El Monte Vision Zero Action Plan is an initiative to eliminate traffic-related fatalities and serious injuries in El Monte by 2027. It is guided by "Vision Zero," a traffic safety concept which states that no loss of life due to traffic collisions is acceptable. In the 1990s, Sweden developed "Vision Zero" and the Netherlands concurrently developed "Sustainable Safety" (aka "Vision Zero Plus"), and the concepts have been widely embraced around the world. In the United States the concepts were first adopted in New York City (NYC) which, mainly due to the widespread implementation of innovative, low-cost pedestrian safety measures, has seen the lowest number of pedestrian fatalities in the first year of enactment since 1910. After NYC, Vision Zero spread to dozens of cities across the country. The City of Los Angeles, Los Angeles County, and the City of Long Beach have all enacted Vision Zero plans, and the California Department of Transportation (Caltrans) has made a commitment to Zero Deaths.

In recent years there have been significant transitions in the El Monte Department of Public Works and are now looking at traffic safety with a new perspective, a more systemic perspective. During the production of this Plan there were multiple meetings with the El Monte Department of Public Works - Engineering Division, and they are looking forward to using the Vision Zero Action Plan to initiate a more proactive approach to traffic safety. They are ready to use traffic calming to reduce speeds, recognizing the impact of excessive speeding. Excessive speed has been shown to be a leading cause of traffic fatalities, and cities that have embraced Vision Zero have focused on traffic calming as a countermeasure. Figure 1-1 below shows the impact of motor vehicle speed on the death rate of people walking, showing how the death rate increases exponentially as speeds increase.

FIGURE 1-1: Collision Speed vs. Pedestrian Fatality Rate



1.3 Vision Zero vs. Traditional Safety Research

Vision Zero is proactive rather than reactive. In practice, this means it is necessary to identify and remedy dangerous roadway conditions and characteristics before serious injury or death occurs. Recent research points to the benefits of identifying the types of roadway characteristics that lead to more pedestrian-involved collisions¹ and recommends proactive measures to mitigate safety issues at those locations. Even when there are no known collisions at the location of, for example, the intersection of two four-lane roads, the research recommends proactively introducing safety projects at that type of location as a preemptive measure against collisions, see Figure 1-2.

FIGURE 1-2: Vision Zero vs. Traditional Safety Approach

APPROACHES TO TRAFFIC SAFETY **Traditional Approach Vision Zero Approach** Traffic deaths are Traffic deaths are **INEVITABLE PREVENTABLE** Integrate **Assumes PERFECT IMPERFECT** human human behavior behavior Prevent FATAL & Aims to PREVENT **SEVERE** collisions collisions **Utilizes a SYSTEMS INDIVIDUAL** approach responsibility Saving lives is NOT Saving lives is **EXPENSIVE EXPENSIVE**

1.4 The 94% Myth

At the heart of the traditional approach to traffic safety is the myth that human error causes most car collisions. Individual road users, bad drivers, careless bicyclists, and distracted pedestrians have historically been presented as the problem and seen as the cause of collisions. Unlike in Europe, which accepts that society at large is responsible for safer streets, in the United States, the responsibility for road safety largely falls on the person walking, bicycling, or driving. American transportation departments, licensing agencies, and media outlets frequently cite that most collisions – "94% of them," are solely due to human error. Blaming poor decisions of roadway users implies that nobody could have prevented these "accidents." Even using the term "accident" versus "crash" implies an incident that is not preventable.

Many agencies in the United States focus on getting bicyclists to be "more visible" and pedestrians to be "less distracted." Data suggests the focus should be in other places, such as reengineering roadways. A 2019 research study by the New York City Department of Transportation (NY-CDOT) entitled "Distraction Shouldn't be Deadly" found that "cell phone use by pedestrians does not appear to be disproportionately contributing to fatal pedestrian crashes," and that "despite growing concerns, NYCDOT found little concrete evidence that device-induced distracted walking contributes significantly to pedestrian fatalities and injuries."

Consequently, traffic safety solutions have too often focused on perfecting human behaviors through strategies like licensing, testing, road user education, and media campaigns. But in the Vision Zero framework, the road safety problem isn't the individual but rather the flaws in the transportation system. Those flaws mean, for example, that distracted drivers in cars and road users have to share the road in unsafe conditions.



1.5 Systemic Safety and the FHWA

The Federal Highway Administration (FHWA) has taken a leading role in implementing Vision Zero or "Systemic Safety." They promote taking a "Safe System approach to road safety" – a holistic view that requires people to think about the road system in its entirety, from infrastructure projects to government agencies. This refers to understanding how the whole system operates, including "upstream factors" such as design guidelines, public participation, policy, and vehicle regulations, and how all influence transportation-related fatality and serious injuries. One of the ways cities are implementing this is by creating steering committees and task forces with representation from all the different agencies involved.

1.6 State/Regional Policy Context

The FHWA isn't alone in rethinking their approach to transportation safety. The State of California, Caltrans, SCAG, and local governments are committed to ensuring transportation safety for all people in Southern California, especially those most vulnerable, pedestrians and bicyclists. Each year, organizations such as SCAG work with the state to develop annual safety targets to comply with federal requirements.

Transportation Safety and SCAG

SCAG's commitment begins with understanding existing conditions and asking: **What** is happening? **Where** is it happening? **Who** is it happening to? And, most importantly—**Why** is it happening?

As part of its commitment to improving safety across the regions, SCAG funds safety plans such as this one.

Each February SCAG establishes safety targets for five performance measures:

- 1. Number of Fatalities
- 2. Rate of Fatalities per 100 million Vehicle Miles Traveled (VMT)
- 3. Number of Serious Injuries
- 4. Rate of Serious Injuries per 100 million VMT
- **5.** Number of Non-motorized Fatalities and Non-motorized Serious Injuries

"Southern California is home to roughly 19 million people, about half the entire state's population, and 13 million licensed drivers. We rely on our cars, buses, rail lines, bicycles, and feet to get around. And we're getting around a lot. We travel almost 430 million miles every day. That's equivalent to 17,911 trips around the world every day. The thing is, we aren't going around the world. We're going to work, the grocery store, to visit our grandma, and to our child's soccer game.

With all that traveling, it's not surprising that mistakes are getting made. At the wrong moment, we might take a quick glance at a text message, rush to make it through a traffic signal, or forgo the intersection to cross midblock. The consequences of these mistakes can last a lifetime." - From SCAG's Regional Transportation Safety Existing Conditions Report²



Source: SCAG Regional Transportation Safety Existing Conditions Report²

SCAG also developed a high-injury network (HIN) to demonstrate where high concentrations of fatal and serious collisions occur in the region. A HIN, however, is not an assessment of whether a street or location is dangerous. Rather, an HIN suggests corridor characteristics within a transportation network that carry a higher risk of injury. This allows SCAG to help cities to:

- » Identify areas of need;
- » Provide agency staff with more information on where they can focus limited resources;
- » Provide opportunities to understand how communities of concern or disadvantaged communities are impacted by higher rates of collision and serious injury; and
- » Assist with building greater public and political support.

In addition, SCAG provides additional resources in the form of the Safe and Active Streets Working Group, a Transportation Safety Program¹ and the *Go Human* Campaign.

1.6.1 Transportation Safety and Caltrans

Through the development of the 2020-24 Strategic Highway Safety Plan (SHSP)³, Caltrans has emphasized the underlying goal of making zero traffic fatalities and serious injuries a reality. In summer 2020, state transportation leaders from a wide range of organizations recognized a bolder and more focused approach was necessary to combat troubling trends in traffic safety. This important change - referred to as "The Pivot" - led to focusing on high-priority areas, expanding SHSP membership, and adopting four guiding principles in the updated statewide data-driven traffic safety plan:

- » Integrating equity into all aspects of the plan
- » Implementing a Safe System Approach
- » Doubling down on what works
- » Accelerating advanced technology

To advance safety across the state, Caltrans assists regional and local agencies with grant opportunities to fund various road safety planning efforts such as Local Road Safety Plans and Systemic Safety Analyses. In addition, grant programs like the Active Transportation Program provide funding for bicycle and pedestrian safety infrastructure projects.

"Caltrans is irrevocably committed to achieving zero traffic fatalities and serious injuries by 2050, and seeing deep, quantifiable and consistent reductions in those numbers in the years going forward." - Toks Omishakin, Caltrans Director

To follow Caltrans' and SCAG's lead on reducing fatalities and serious injuries on all streets, Los Angeles County and the cities of Los Angeles and Long Beach have equally committed to this goal by developing Vision Zero Plans of their own. These plans have been referenced for El Monte's Vision Zero Action Plan.

The Vision Zero approach also examines how these different agencies interact. To create a safe transportation system, street users, motorists, and the transportation network have to be addressed in an integrated manner, through a wide range of measures. El Monte won't achieve a safe system by just focusing on one aspect, like redesigning roadways, unless it also manages the speeds on the roads and considers how policies, like automated enforcement, can assist in the overall effort.

1.7 The Data-Driven Process

At its core, Vision Zero has an emphasis on data-driven decision-making. When approaching road safety from a Vision Zero perspective, data needs to be gathered on where and how crashes happen. In addition, it's important to analyze other data sources such as the demographics of impacted communities, enforcement citations, and hospital injury reports. Data should be collected, analyzed, and be made available to the public to facilitate transparency, accountability, and assist the public in monitoring progress toward zero transportation-related fatalities and serious injuries. As shown in subsequent chapters, this Vision Zero Action Plan is data-driven and the results and recommendations are data-focused.

1.8 Vision Zero Toolbox - The 6 Es

Countermeasures are grouped into the following categories, the 6 Es:

- **1.** Education
- 2. Encouragement
- 3. Enforcement
- 4. Engineering
- **5.** Equity
- **6.** Evaluation



Education



Engineering



Encouragement





Enforcement



1.8.1 Education

A key component to keeping streets safe is to learn how to practice safe roadway behavior. New, widespread education efforts involving community partners will help to ensure everyone becomes a part of the culture of safety. One typical education event is a Bicycle Rodeo. A Bicycle Rodeo is a bicycle safety event for children, generally ages 6-14. Children learn how to ride bicycles of all shapes and sizes, all while having fun and getting encouragement to use active travel and exercise often. Events can include lectures, workshops, inspections, demonstrations, and a practice course, generally in a circle, which the kids ride around. They can be held in schools and other locations around El Monte.

A typical strategy is to create and implement a public Safety Campaign to develop and distribute information related to collision statistics and safe behaviors for road users. Motorists have a disproportionate impact on others when they are in collisions and therefore the focus will be on how and when motorists are required to yield to pedestrians and bicyclists. A key education effort is typically to educate drivers on how to use existing Class 3 Sharrow streets, which are streets with Shared Lane Markings where bicyclists share the road with motor vehicles. A variety of media can be considered including social media and newspapers, and flyers can be created and mailed to residents.

1.8.2 Encouragement

Encouragement in Vision Zero involves creating a safety culture in El Monte where people feel comfortable using the travel mode of their choice. For some it is counterintuitive that encouraging more people to walk and bicycle will reduce collisions related to bicycling and walking. However, researchers have identified a phenomenon known as "Safety in Numbers," which has shown that the more people walk and bicycle, the lower the crash rate is for walking and bicycling, and that includes both fatalities and serious injuries. A typical encouragement program is an individualized marketing program that targets the "interested but concerned" part of the population to engage in more walking and bicycling, a program similar to the "Smart-Trips" program. SmartTrips⁴ is from the City of Portland, where the City provides resources for getting around by walking, bicycling, and public transit. They host free community events, provide helpful tools, encourage more people to travel by foot and by bicycle, and give information about how to travel by active and sustainable modes.



Example of Vision Zero advertising used in San Francisco

1.8.3 Enforcement

The El Monte Police Department has been an effective partner and has been active in its effort to reduce traffic fatalities in El Monte. They have an on-going drunk driving campaign using Driving Under the Influence (DUI) checkpoints to reduce impaired driving, a critically important part of Vision Zero. Different cities have various traffic safety enforcement practices. The City of Fremont, California, Police Department routinely conducts high-visibility traffic stops to provide warnings and education, rather than issue tickets and fines. This creates a visible enforcement presence without generating economic hardship. Research has shown that the presence of police can sometimes make some community members feel unsafe. Consequently, enforcement must be sensitively applied and other strategies can be depended on to also promote safe streets. Ideally, enforcement of Vision Zero focuses on the driving behaviors shown to cause fatalities and serious injury collisions while minimizing victim blaming of pedestrians. Research has shown that high motor vehicle speeds lead to more pedestrian fatalities than pedestrians crossing the street illegally. One common strategy is a campaign targeting enforcement of turning vehicles at signalized intersections. In particular for the City of El Monte, where motorists are turning at high speeds and hitting people walking, enforcement would be most effective immediately following the installation of the initial phase of Leading Pedestrian Intervals (LPIs) and "No-Right-Turn-On-Red" blank out signs. Another common strategy is to implement automatic Red Light Running Enforcement for drivers at intersections. Left turn and broadside collisions from crossing traffic are two of the leading causes of traffic fatalities, and both can be reduced with red light cameras. Finally, ticketing vehicles blocking the bicycle lane is another simple and effective way to increase safety.



, 1.8.4 Engineering

The central thesis of Vision Zero is that people are vulnerable and people make mistakes, but those mistakes should not lead to fatalities or serious injuries. Rather, roads should be "forgiving." Engineering plays a key role in creating forgiving roadways. Vision Zero street designs reduce the likelihood of severe traffic collisions by improving visibility, separating traffic flows where there is speed and mass differential between user groups, and lowering operating speed through a combination of design practices, traffic calming, and lower speed limits. Engineering safety is not just about what is built, but about traffic safety during construction. One measure many cities incorporate is to develop Temporary Traffic Control policies for vulnerable populations, such as people walking and bicycling, and develop strategies that focus on keeping people safe on the streets during construction. Cities will use creative and low cost solutions like signal timing modifications to ensure safe and predictable movements - especially for people walking and bicycling. People walking are given a protected space, away from motor vehicles, around a construction site so they are not required to walk in traffic.

1.8.5 Equity

In terms of advancing equity in El Monte's transportation system, the Vision Zero approach presents both opportunities and challenges. Inequities in severe and fatal injuries are those that result from unjust and unfair differences in social, economic, environmental, and political conditions. Communities that experience disproportionately higher rates of fatal and serious collisions include low income populations, communities of color, those experiencing homelessness, people with disabilities, limited English proficiency, older adults, and youth. Furthermore, there is intersectionality between many of these communities; studies in various jurisdictions reveal that neighborhoods with vulnerable populations have higher injury rates and deaths due to varying factors, including higher pedestrian activity, older infrastructure, and more. El Monte's Vision Zero High-Injury Network is disproportionately concentrated in low-income communities and communities of color. Vulnerable road users like pedestrians, bicyclists, and motorcyclists are more likely to experience severe or fatal injuries when they are involved in a traffic collision. Current transportation system design is often inadequate to protect vulnerable users, due to a historic prioritization of motor vehicle speed and mobility over safety.

Communication is key to improving traffic-related disparities and inequities in El Monte. Vision Zero is about communicating the realities of how traffic safety issues affect all populations within a community, particularly those that are most vulnerable and those that are traditionally underserved. It is critical that along with their other communications tasks, City and community leaders prioritize equity early and consistently in internal and external communications. That means including residents and leaders representing those communities impacted most directly by traffic safety problems. Moreover, it means thinking carefully about language and enlisting the help of key stakeholders to frame and shape conversations to be clear and inclusive.

1.8.6 Evaluation Evaluation and monitoring is among the most important yet most overlooked aspects of a Vision Zero program. A baseline evaluation program is needed to track progress made in the Vision Zero goal, even incremental progress. It is recommended that El Monte combine hospital trauma data (where available) with police crash data to better evaluate and track Vision Zero goals. Clear data about traffic safety problems and the efficacy of solutions are necessary to track, measure, and achieve goals. Improving and expanding methods for data collection, analysis, and sharing will help the City to target improvements where they are needed most and deliver cost-effective results. At the same time, the City will need to calibrate any data that is collected. Data has limitations. There is often an under-reporting of crashes, and there are at times, errors in collision reports. There is also bias in reporting. Collision data may not accurately reflect the roadway safety experiences among vulnerable road user groups, and a large proportion of collision data is not desegregated by race and ethnicity. It's important to recognize the biases in data and those in interpreting and using the data. It is critical to conduct rigorous outreach and engagement in analyzing conditions.

El Monte's Vision Zero Action Plan was built on the six Es of Vision Zero to create an effective strategy to eliminate all traffic fatalities and severe injuries, while increasing safe, healthy, and equitable mobility for all.

Endnotes:

¹Scheider et al., 2020. Journal of Transport and Land Use. https://www. jtlu.org/index.php/jtlu/article/view/1825

²SCAG Regional Transportation Safety Existing Conditions Report. https://scag.ca.gov/sites/main/files/file-attachments/2021-transportation-safety-full-report.pdf?1641417608

³2020-24 Strategic Highway Safety Plan. https://dot.ca.gov/-/media/ dot-media/programs/safety-programs/documents/shsp/2020-2024-shsp-implementation-plan-march-2021-a11v.pdf

4City of Portland SmartTrips. https://www.portland.gov/transportation/walking-biking-transit-safety/smarttrips



PAGE INTENTIONALLY LEFT BLANK

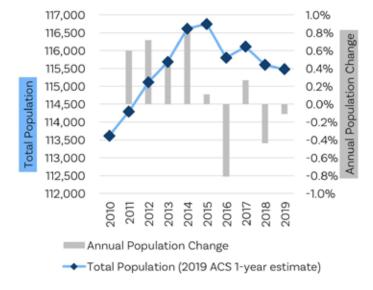


Existing Conditions

Overview of El Monte

El Monte is a city of approximately 115,477 people located in the suburban San Gabriel Valley about 12 miles east of downtown Los Angeles along Interstate 10. From 2010 to 2019, the population grew by approximately 1,800 people for a 10-year growth rate of 1.6 percent, see Figure 2-1. SCAG forecasts that El Monte will grow to 137,500 people by 2045, a 16% increase in the intervening 26 years (2019 to 2045). Approximately 72% of the City's 9.6 square miles (6,174 acres) is developed for residential uses, resulting in an average residential population density of 27 people per acre in 2019.

FIGURE 2-1: El Monte Population Growth



The City's median household income is \$50,829 which is well below Los Angeles County's median income of \$80,000. The U.S. Department of Housing and Urban Development (HUD) is required to set income limits that determine the eligibility of applicants to various housing and assistance programs by county. The County's Low Income Level limit is \$47,850, which 19% of the City's households fall below and are considered living in poverty.

Evaluating the demographics of the residents that use these streets everyday is critical to ensuring Vision Zero strategies are employed

Demographic Profile









Population

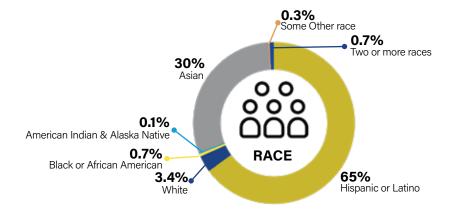
Median Age

Median Income Housing Units

where they are needed the most. Many of the State's active transportation and road safety planning and implementation funds directly benefit disadvantaged communities since residents in these communities rely on walking, bicycling, and using transit every day.

El Monte has a diverse population. The City can be categorized as a family-oriented or "young" community based on the age distribution with a median age of 38.2. The racial and ethnic makeup in El Monte is 65% Hispanic or Latino, 30% Asian, 3.4% White, 0.7% Black or African American, 0.7% identifying as two or more races, 0.3% identifying as some other race, and 0.1% American Indian and Alaska Native.

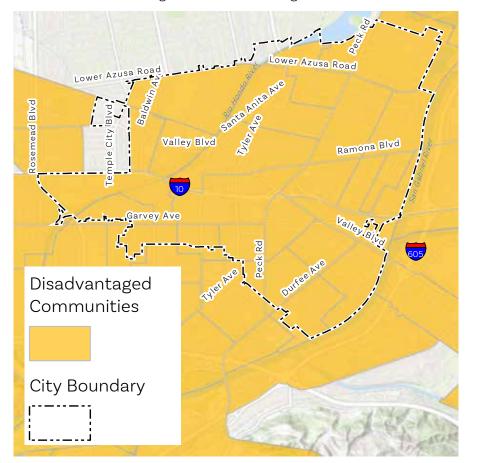
These demographics place the City of El Monte into three distinct Environmental Justice designations identified through SCAG's Regional Transportation Plan/Sustainable Communities Strategy and Senate Bill 535. Environmental Justice refers to the fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income with respect to the development, implementation and enforcement of environmental laws, regulations and policies.



2.1.1 Disadvantaged Community Designation

The City of El Monte is designated as a Disadvantaged Community (DAC) according to Senate Bill 535 which lists disadvantaged communities using the results from CalEnviroscreen 3.0. El Monte falls within the 25% of the highest scoring census tracts in CalEnviroscreen. CalEnviroScreen is a screening methodology that can be used to help identify California communities that are disproportionately burdened by multiple sources of pollution, see Figure 2-2.

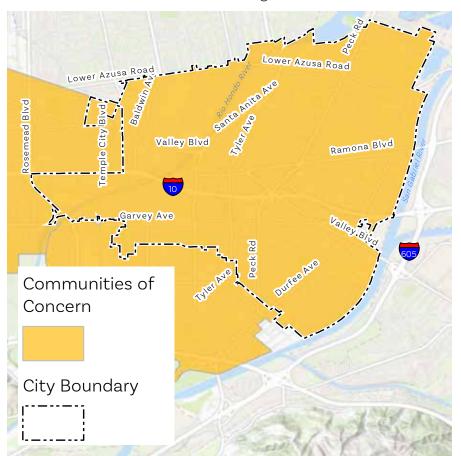
FIGURE 2-2: Disadvantaged Communities Designation



2.1.2 Community of Concern

SCAG 2020 Regional Transportation Plan/Sustainable Communities Strategy also identified the City of El Monte as a Community of Concern (COC). A COC is a Census Designated Place (CDP) that falls in the upper one-third of all communities in the SCAG region for having the highest concentration of minority population and low-income households, see Figure 2-3.

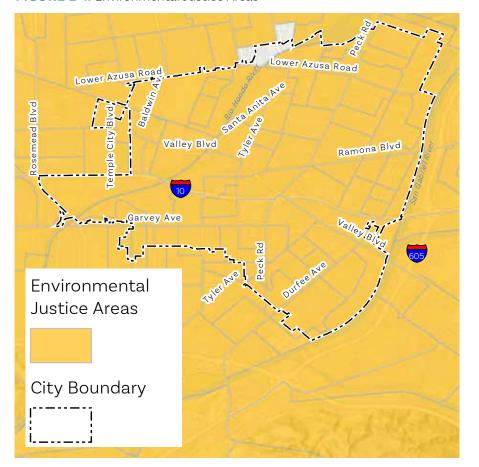
FIGURE 2-3: Communities of Concern Designation



2.1.3 Environmental Justice Areas

Environmental Justice Areas (EJAs) are Transportation Analysis Zones (TAZs) that have a higher concentration of minority population OR low-income households than are seen in the region. According to SCAG's 2020 Regional Transportation Plan/Sustainable Communities Strategy, the City of El Monte is also identified as an EJA, as shown in Figure 2-4.

FIGURE 2-4: Environmental Justice Areas



According to the Connect SoCal Plan Performance Environmental Justice Technical Report, the rise in older adult population in DACs, COCs, and EJAs is also expected to outpace the aging trends in the region, with the number of residents over 65 expected to double. The population growth rate for non-Hispanic Asian residents is expected to outpace all other race/ethnicity groups, and will be more pronounced in DACs, COCs, and EJAs. Disproportionate increases in white, non-Hispanic population growth are anticipated to occur in DACs and COCs.

Being identified as these three environmental justice designations, many of the goals and strategies from the Regional Transportation Plan/Sustainable Communities Strategy will help improve the quality of life for the residents of El Monte. The City's unique demographic diversity, provides the opportunity to utilize these designations for transportation and land use decisions and the pursuit of grant funding. Equity is one of the "Es" that plays a key role in Vision Zero and is a key component of this Plan.

Through analysis in Chapter 2, bicycle and pedestrian collisions represent 40% of traffic collisions in the City of El Monte. Older adults are also disproportionately affected, and as our population ages, this trend could grow. Between 2008-2019, there were 929 police-reported collisions in the City of El Monte with an average of three fatalities and 13.5 severe injuries per year. Surprisingly, the 20-24 age demographic represents 17% of the fatal and severe injury reports and people over the age of 85 are second at 10%. Analyzing collisions, the identification of the high-injury network, goals and strategies, and the six Es are the core elements of developing a Vision Zero Plan. These elements underlie the core of the worldwide and local Vision Zero movement that believes death and injury on city streets is preventable. For the most part, these aren't "accidents." Collisions are often the result of poor behaviors, unforgiving roadway designs, lack of bicycle and pedestrian facilities, and lack of community engagement. The El Monte Vision Zero Action Plan must approach the problem from multiple angles street designs that emphasize safety, predictability, and the potential for human error, coupled with targeted education, engagement, and data-driven analysis

2.2 Transportation Context

El Monte and surrounding cities are bedroom communities of central business districts in the greater Los Angeles area, most notably downtown Los Angeles. Approximately 49,600 El Monte residents commute to work, and 75.3% of these commuters drive alone. The average commute time for individuals driving alone in a personal vehicle is 28.7 minutes. For the 4.7% of El Monte commuters who take public transit, the average commute time is 53.1 minutes. Table 2-1 and Table 2-2 provide comparisons for the percent of commute modes and average commute times by commute mode of El Monte residents.

TABLE 2-1: Percent of Commute Modes

COMMUTE MODE 1	CITY OF EL MONTE	LOS ANGELES COUNTY	CALIFORNIA	UNITED STATES
Walk	1.9%	2.7%	2.6%	2.7%
Bicycle	0.4%	0.8%	1.0%	0.5%
Public Transit	4.7%	5.8%	5.1%	5.0%
Carpool	13.3%	9.5%	10.1%	9.0%
Drive Alone	75.3%	74.0%	73.7%	76.3%

¹Commute mode statistics per jurisdiction in this table do not sum to 100% because it does not include work from home or commutes by 'other means.'

TABLE 2-2: Average Commute Times (minutes) by Mode

	AVERAGE COMMUTE TIME BY MODE ¹					
COMMUTE MODE	CITY OF EL MONTE	LOS ANGELES COUNTY	CALIFORNIA	UNITED STATES		
All Modes	31.8	32.8	30.7	27.6		
Drive Alone	30.2	31.8	29.5	26.4		
Carpool	35.7	34.4	33	28.5		
Public Transit	51.3	53.4	52.7	50.6		

¹Commute times by walking and bicycling are not available from the U.S. Census Bureau's American Community Survey.

Though commutes account for less than 20% of all trips (< 20% mode share) the percent of each transportation mode for commuting is indicative of the mode share for all trips. The current commute mode share in El Monte indicates that personal vehicles are a primary mode for other trip purposes in the City.

With the adoption of Senate Bill (SB) 743, the State of California changed the method of traffic analysis required through the California Environmental Quality Act (CEQA) for publicly- and privately-initiated projects. The law changed the way local jurisdictions analyze transportation impacts from development projects and identify mitigation measures to reduce those impacts. SB 743 became effective on July 1, 2020. SB 743 will bring a shift in residential development and commute patterns.

The previous practice of evaluating traffic transportation impacts used on-road congestion or level of service (LOS) is being replaced. SB 743 requires the amount of driving and length of trips – as measured by "vehicle miles traveled" or VMT – be used to assess transportation impacts on the environment for CEQA review. These impacts will be reduced or "mitigated" by options such as increasing transit, providing for active transportation such as walking and bicycling, and participating in mitigation banks. All jurisdictions have the option to tailor requirements to their unique communities.

Transit-oriented development and mixed land uses will put higher densities of people closer to transit and their workplace, placing greater emphasis on infrastructure and safety for active and non-vehicular transportation modes.



2.3 Challenges and Opportunities

The built environment in El Monte presents both challenges and opportunities for transportation safety.

2.3.1 Built Environment - Challenges

Distances Between Intersections

Arterials in El Monte cover long distances between intersections. In these long blocks, intersections may be the only place to cross an arterial with any safety against cross traffic, as midblock crossings in El Monte are few. Ramona Boulevard from Peck Road to La Madera Avenue is an example of a long block. This 0.33-mile stretch has high-density housing on one side and a commercial area on the other. To safely walk to a bank across the street, residents would have to walk at least 0.25 miles, which is 300% farther than a safe midblock crossing in this area would allow. Safe routes to nearby destinations can be enabled across arterial roads where long distances between intersections may invite crossing outside of crosswalks.

TABLE 2-3: Functional Classification of El Monte Roadways¹

FUNCTIONAL CLASSIFICATION (CALTRANS)	MILES
Interstate	13.8
Other freeway or expressway	0.0
Other principal arterial	16.2
Major collector	18.1
Minor collector	17.9
Local	142.7

Speed Differential

The difference in speeds between local roads and arterial roads presents a safety challenge between drivers and non-motorized users. Though the speed limit is 35 miles per hour on most arterial roads in El Monte, observed speeds are often higher due in part to the long distances between signalized intersections that invite speeding. For drivers on a local road turning onto an arterial road, speeding traffic decreases the reaction time needed to adjust to unanticipated vehicles in the path of travel. For bicyclists or pedestrians, the speed differential and reaction time related to speeding vehicles on arterial roads is exacerbated, especially with the temptation to cross arterials midblock to follow the shortest "desire line" to destinations on the other side.

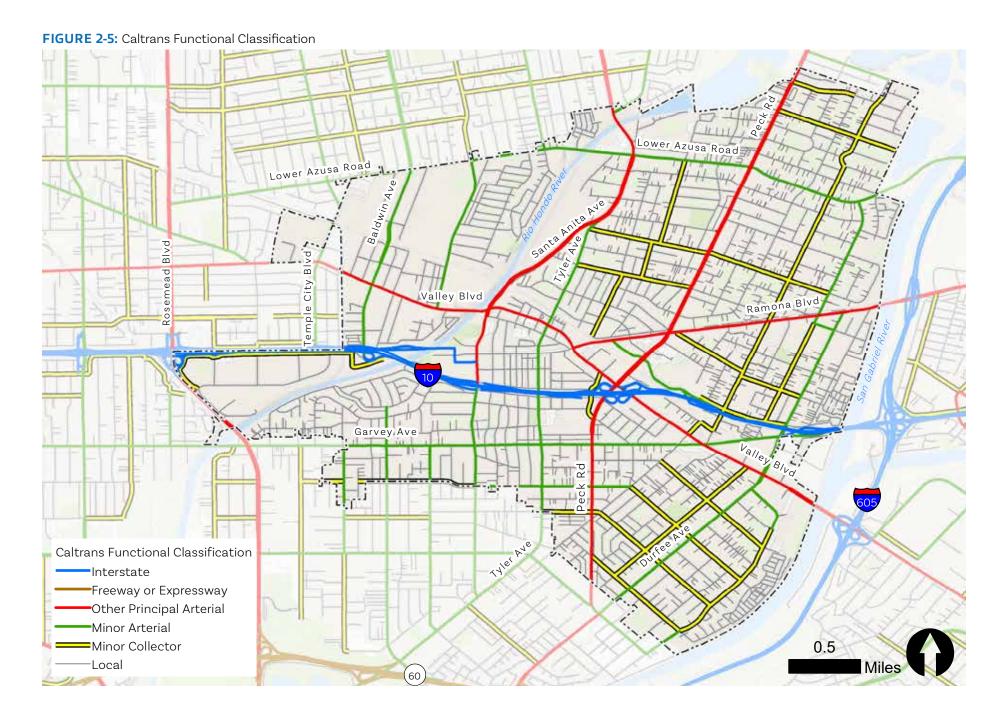
2.3.2 Built Environment - Opportunities

Gridded Road Network

The gridded road network in El Monte serves the accessibility needs of motorized road users well. Local roads intersect arterial roads, giving residential neighborhoods convenient vehicular access to longer-distance routes. The grid structure has the potential to also serve the needs of non-motorized users if appropriate safety infrastructure exists. The greatest need for safety infrastructure is where local roads intersect an arterial road - not only do these roads have higher traffic speeds and volumes, but their corridors also have more diverse land uses and destinations to which people may want to walk or bicycle. Many of El Monte's residential neighborhoods have local roads that intersect with arterial roads (Table 2-3 and Figure 2-5).

Destinations

Frequently-visited destinations such as parks, schools, and commercial areas are often located along or near arterial roads. Safe routes to these destinations may increase the percentage of trips that are taken by active and non-motorized modes.



2.4 Collision Summary

2.4.1 Data

Collision data from the Statewide Integrated Traffic Records System (SWITRS) for the 11-year period from 2008-2019 was used for this summary. SWITRS is a database of statewide collision data collected by the California Highway Patrol for motor vehicle collisions resulting in injury, fatality, or over \$1,000 in damage. This summary focuses on fatal, severe, and visible injury collisions, and excludes minor injury and property damage-only collisions.

2.4.2 Overall Traffic Collision Trends

A total of 1,543 collisions occurred in El Monte from 2008 to 2019. Over this period, 929 collisions were auto-only, 252 were pedestrian-involved collisions, 362 were bicyclist-involved. In total, 614 collisions (39.7% of total) involved pedestrians or bicyclists.







362

The goal of Vision Zero is zero deaths and zero severe injuries due to traffic collisions; El Monte has not met this goal in any year between 2009 and 2020. Figure 2-6 shows the number of fatal and severe injuries over the study period, and Figure 2-7 shows the number of bicyclist- and pedestrian-involved collisions over the study period. Though there were zero deaths on El Monte roadways in 2012 and 2019, the average over the study period is three deaths per year with a high of seven in 2013. Data for the complete year of 2020 is unavailable, but partial data shows six roadway deaths in 2020. Both 2013 and 2020 show that years of zero deaths can be followed by years with a high number of deaths. Furthermore, as was the case in 2019, a year of zero deaths can have a high number of severe-injury collisions.

FIGURE 2-6: Fatal and Severe Injuries in El Monte

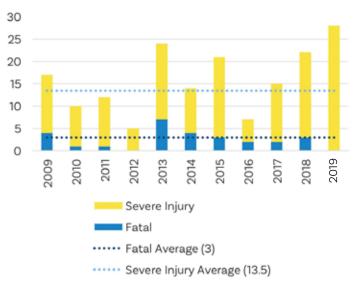
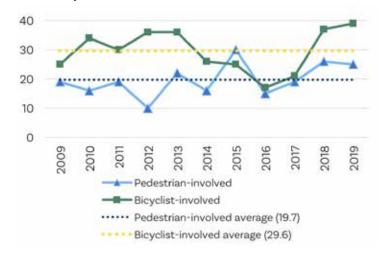


FIGURE 2-7: Bicyclist- and Pedestrian-Involved Collisions



2.5 Collision Mapping Overview

Understanding the roadway conditions where severe-injury and fatal collisions occur is fundamental to addressing unsafe conditions in other places before these types of collisions occur. Mapping what is known as the "high-injury network" identifies segments of roadway that have been the location of the highest number of pedestrian-involved, bicyclist-involved, severe-injury or fatal collisions. By learning the characteristics of high-injury road segments, these conditions can be remedied citywide where clusters of collisions occur. A "collision tree" grouping method helps identify clusters of collisions that occur in the same conditions as the high-injury network.

Collision mapping was performed in the following two ways:

- **1.** A high-injury network method that ranks road segments by weighting the collisions that occurred on each segment over the study period
- **2.** A collision tree method that groups and maps collisions by the roadway conditions where they occurred.

2.5.1 High-Injury Network

The high-injury network (HIN) method identifies segments of roads with concentrations of fatal and severe injury (Killed or Significantly Injured-KSI) collisions. The goal of this method is to identify connected segments of roadway with a high number of collisions that together form a high-injury corridor where safety improvements can be implemented. With this method, bicyclist-involved and pedestrian-involved collisions are weighted 25% more than auto-only collisions. Fatal auto-only collisions are also weighted 25% more than non-fatal collisions. Figure 2-8 shows the process for identifying high-injury segments. For both methods, larger sums indicate more collisions, or a sum of relatively fewer auto-only collisions combined with bicycle- or pedestrian-involved collisions on the same road segment.

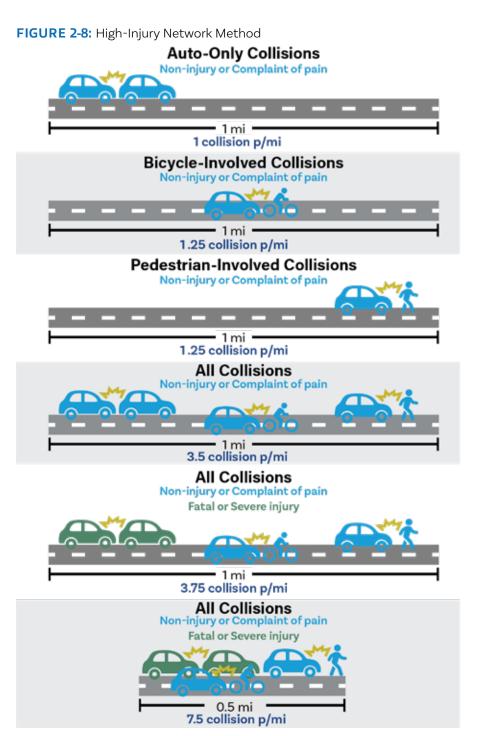


Figure 2-9 shows the mapped result of the method shown in Figure 2-8. The map legend shows that a HIN "score" (or KSI, the sum of fatal and severe collisions per road segment) can be translated to a collision type or combination of collision types. The HIN score is normalized (divided) by the length of the respective road segment and expressed as a percentile compared to all road segments in El Monte (Figure 2-10). Road segments from the 75th to 100th percentiles have the highest number of pedestrian-involved, bicyclist-involved, severe-injury or fatal collisions for their length compared to all road segments citywide. Figure 2-10 shows disparate segments make up the high-injury network, from which it is difficult to identify corridors for safety improvements. Examples of these disconnected high-injury segments exist in northern El Monte at Peck Road and Lower Azusa Road, and in southern El Monte at Peck Road and Garvey Avenue.

To help connect the segments, the same method was applied to a larger collision dataset that includes minor injury collisions. Figure 2-11 shows the results of this larger dataset, summarized as the "collision index" (CI) to differentiate it from the high-injury network. Figure 2-12 shows the results of the collision index normalized by segment length, as was done for the high-injury network in Figure 2-10. This method identifies more road segments that together link the segments from the high-injury network to identify the broader corridors for safety improvements.

The project Technical Advisory Committee (TAC; described further in Chapter 3) identified corridors of concern that correlate to the corridors identified by CI method. The CI method identifies parts of most of the TAC corridors of concern, and helps identify corridors that the TAC did not identify, such as Peck Road and Ramona Boulevard. The TAC also identified Parkway Drive (south of Durfee Avenue in southern El Monte) and segments of Durfee Avenue north of Ramona Boulevard. These segments were likely identified by the TAC because of concerns with vehicle speeds in residential neighborhoods, but collisions were either low in number or non-existent. Though the HIN method did not include these segments, the combination of this data-driven CI method together with community input from the TAC help give a comprehensive picture of the corridors that can be focused on for safety improvements.

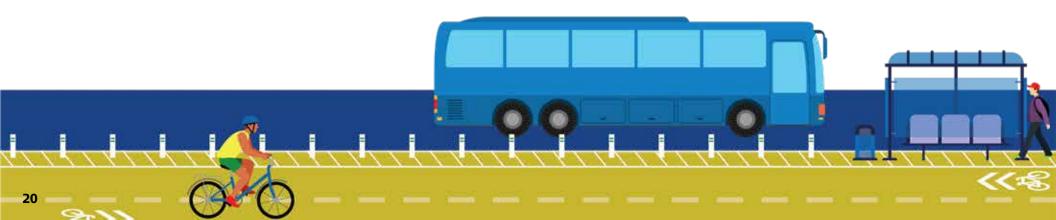


FIGURE 2-9: Cumulative Fatal and Severe Injury (KSI) Network Lower Azusa Road Lower Azusa Road Temple City Valley Blvd Ramona Blvd High-Injury Network (KSI) Cumulative KSI No collisions - 1.25 (1 bicyclist- or pedestrian-involved collision) 2.5 (2 bicyclist- or pedestrian-involved collisions) 3.75 (3 bicyclist- or pedestrian-involved collisions) 5 (5 auto-only collisions OR 4 bicyclist- or pedestrian-involved collisions) 0.5 8.75 (multiple possible collision combinations)

FIGURE 2-10: Normalized Fatal and Severe Injury (KSI) Network Lower Azusa Road Lower Azusa Road Temple City Blvd Valley Blvd Ramona Blvd High-Injury Network (KSI) Normalized KSI (percentiles) No Collisions 1-25th 25 - 50th 0.5 50 -75th

(60)

- 75 -100th

FIGURE 2-11: Cumulative Collision Index (CI) Lower Azusa Road Lower Azusa Road Temple City Valley Blvd Ramona Blvd Cumulative CI No collisions ■ 1.0 (1 auto-only collision) ■ 1.25 (1 bicyclist- or pedestrian-involved collision) 2.0 (2 auto-only collisions) 2.25 (1 auto-only + 1 bicyclist- or pedestrian-involved collision) 2.5 (2 bicyclist- or pedestrian-involved collision) 2.5 - 5 (multiple possible collision combinations) 5 - 10 (multiple possible collision combinations) 10 - 20 (multiple possible collision combinations) 0.5

■ 20 - 26.75 (multiple possible collision combinations)

FIGURE 2-12: Normalized Collision Index (CI)



2.5.2 Using a Collision Tree for Hotspot Analysis

A data classification method known as a "classification tree" was used to classify collision data according to the roadway characteristics where they occurred. Each collision type (pedestrian-involved, bicyclist-involved, and auto-only) is classified in its own tree.

The first tier of the tree relates collisions to one of three general roadway locations:

- **1. Intersection:** the footprint at the junction of two or more roads where vehicle turning movements occur
- **2. Intersection "influence area":** the length of road 200 feet along all legs of an intersection where vehicle accelerating, braking, lane-changing, and merging occur
- **3. Midblock:** the road segment between intersection influence areas where vehicles achieve peak speed

The second tier is unique only to intersections, and relates to the type of intersection control; signalized controls (stop lights) or non-signalized controls (stop signs).

The third tier relates to the existence of and type of medians: no median, painted medians, or raised medians.

The fourth tier relates to the number of through-lanes, ranging from one to six lanes.

This collision classification tree - or "collision tree" - method quantifies collisions according to common characteristics (Appendix Section A.1). In each collision tree, blue boxes indicate the highest number of collisions per tier.

For all collision types, the highest number of collisions occurred at intersections. For auto-only collisions, the highest number of collisions (146) occurred at signalized four-lane intersections with no median (Figure 2-14), followed by signalized two-lane intersections with no median (49 collisions). Non-signalized four-lane intersections with no median also had a high number of auto-only collisions (63).

For pedestrian-involved collisions, the highest number of collisions (58) occurred at signalized four-lane intersections with no median (Figure 2-15), followed by non-signalized two-lane intersections with no median.

For bicyclist-involved collisions, non-signalized two-lane intersections (54) and non-signalized four-lane intersections (49) were nearly equal (Figure 2-16).

Mapping collisions according to their common roadway characteristics can help identify "hotspots," or locations where clusters where these similar collisions occur (Figure 2-14, Figure 2-15, and Figure 2-16). Where clusters of collisions share similar characteristics, recommendations from this project may be applied. Alternatively, further identification of collision factors can remedy unique roadway conditions, such as intersection geometry, sight lines, existence of driveways, or on-street parking.

Figure 2-13 is an example of a crash tree occurring at intersections. An overview of the High-Injury Network with additional mapping and crash trees can be found in Appendix Section A.1.

FIGURE 2-13: Auto-Auto Collision Tree

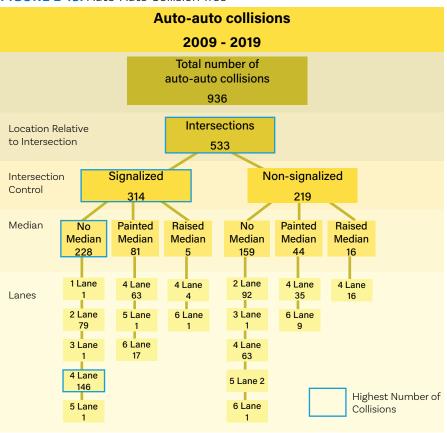
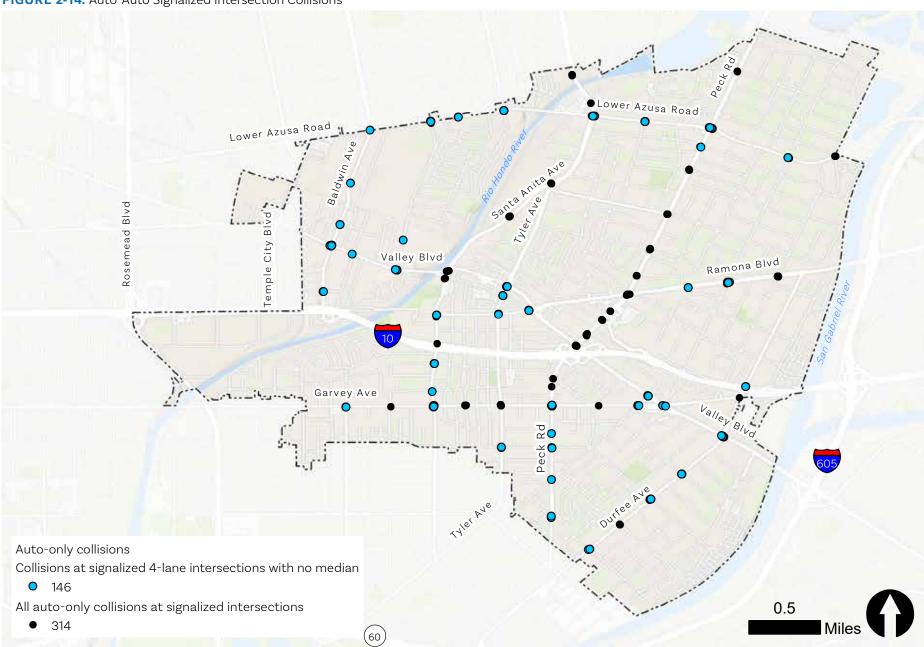
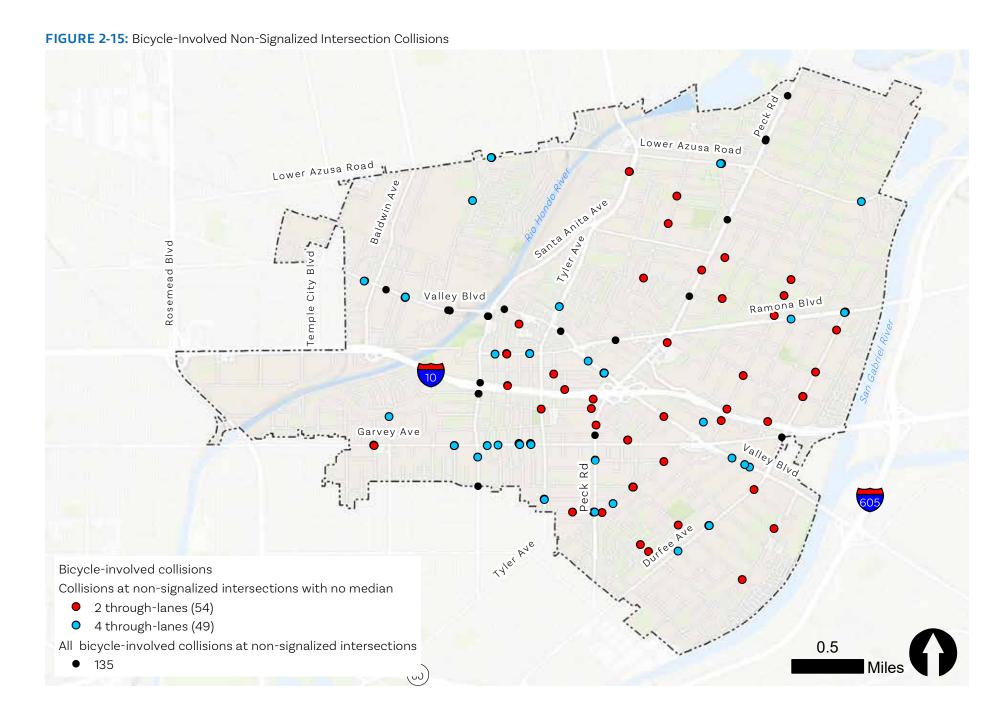


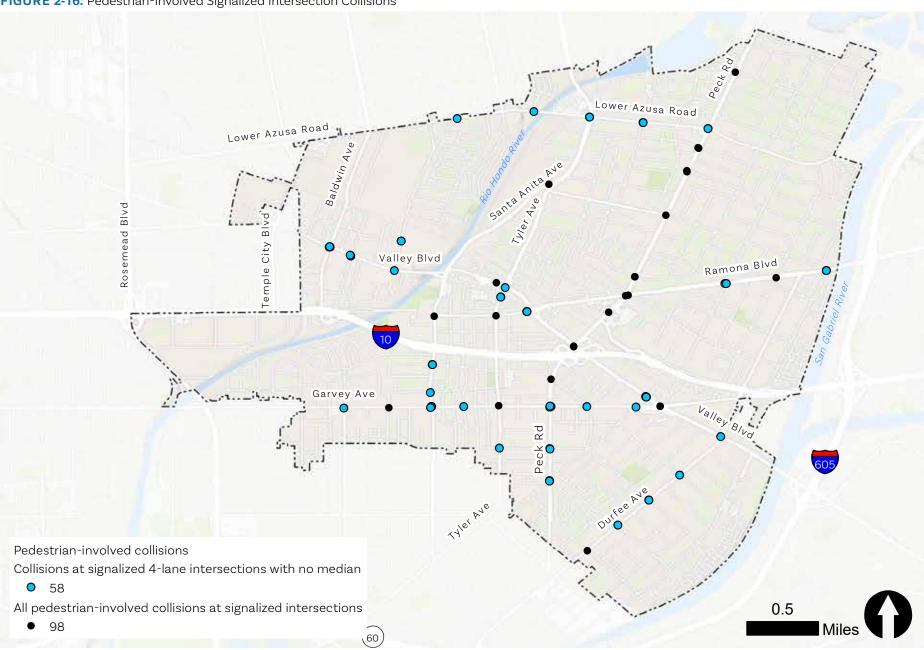
FIGURE 2-14: Auto-Auto Signalized Intersection Collisions





27

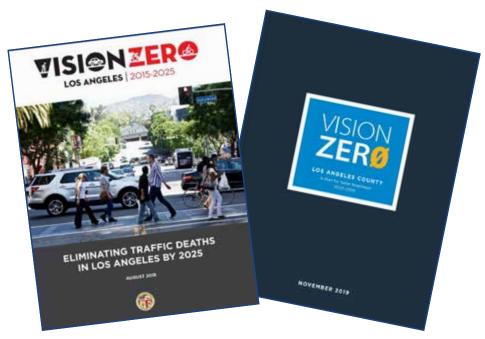
FIGURE 2-16: Pedestrian-Involved Signalized Intersection Collisions



2.6 Planning and Policy Context

The following documents comprise the primary local and regional planning efforts affecting the El Monte Vision Zero Action Plan. The goals, objectives, strategies, and policy recommendations made within this Plan build from the following plans, which provide context for the City of El Monte to improve to meet Vision Zero. For each document, relevant policies, goals, and excerpts are provided.

- » Assembly Bill 43 (AB 43)²
- » Strategic Highway Safety Plan (2021)³
- » SCAG Transportation Safety and Security Technical Report (2020)⁴
- » Los Angeles County Vision Zero (2019)⁵
- » Los Angeles Metro Active Transportation Strategy Plan (2016)⁶
- » City of Los Angeles Vision Zero (2017)⁷
- » City of Long Beach, A Vision Zero Action Plan (2020)8



Covers of Vision Zero Reports

2.6.1 Assembly Bill 43 (AB 43)²

Safety Baseline

The passage of AB 43 in 2021 is an important step forward for safer streets. Other leading Vision Zero cities are showing the power of reduced speed limits, both in bringing down average speeds and highrisk speeds. Prior to AB 43, speed limits were set based on the 85th percentile speed of free-flowing traffic, resulting in cases where speed limits increased on streets with frequent speeding. Now, with AB 43, cities have more control in setting speed limits within their jurisdiction, including considerations for the safety of vulnerable road users. The fact that a street had high crash rates and large numbers of people walking and bicycling was previously irrelevant. AB 43 will allow communities to set lower speed limits to keep streets safe.

Safety Goals and Strategies

- » Authorize local authorities to consider the safety of vulnerable pedestrian groups
- » Establish a *primα fαcie* (default) speed limit of 25 miles per hour on state highways located in any business or residence district
- Authorize Caltrans and a local authority to declare a speed limit of 20 or 15 miles per hour on these highways.
- » Authorize a lowered speed limit on a section of highway contiguous to a business activity district and require that certain violations be subject to a warning citation.
- If speed limits set by engineering studies are not found to be reasonable and safe, local jurisdictions can reduce speed limits by an additional five miles per hour, and through this process designate up to 20% of their roadways as "safety corridors"



2.6.2 California Strategic Highway Safety Plan (2021)³

Collision Baseline

The 2020-2024 California Strategic Highway Safety Plan (SHSP) was developed using the data findings and input from regional outreach events to determine effective strategies to reduce roadway fatalities and serious injuries. The Plan notes nearly 3,900 fatalities and over 14,000 serious injuries reported in 2017 on the SWITRS.

Safety Goals

- Integrate equity into all aspects of the plan to address institutional and systemic biases
- » Implement a safe systems approach which aims to eliminate fatal and serious injuries for all road users through a holistic view of the roadway system
- » Continue with strategies and actions that are most effective in reducing fatalities and serious injuries, implement proven countermeasures, and encourage innovative solutions
- » Encourage the use of advanced technology in and on roadways by forming new partnerships with technology providers, health and safety groups, manufacturers, and government partners to prioritize safety

Safety Strategies

Using a data-driven approach, the SHSP identifies challenge areas and provides actions to remedy them, as shown in Figure 2-17.

FIGURE 2-17: Traffic Challenge Areas and Remedies

CHALLENGE AREAS	CA FATALITIES AND SERIOUS INJURIES	SAMPLE ACTIONS
Speed Management / Aggressive Driving	34%	1. Implement context-sensitive speed limits that prioritize the safety of all road users 2. Make speed limit setting methodology, and law, easy to understand 3. Develop countermeasures to reduce speeds and prioritize pedestrian, bicyclist, and transit and vehicle safety over vehicle LOS
Pedestrians	17%	1. Establish a High Injury Network (HIN) study methodology for pedestrians 2. Develop pedestrian count models to better evaluate infrastructure and predict pedestrian-related crashes 3. Educate pedestrians about distracted street crossing crashes
Bicyclists	7%	1. Establish a preferred methodology for developing a High Injury Network (HIN) for bicyclists 2. Develop design guidelines that reduce intersection crashes for pedestrians and bicyclists 3. Update Police Officer Standards and Training (POST)/Safety Training materials regarding bicycling traffic law
Intersections	23%	Document and educate about the effectiveness of increased traffic enforcement in lowering traffic crash rates at intersections Install Retro-reflective Backplates on signals
Distracted Driving	5%	Increase outreach and education to collegeaged students about reckless and distracted driving Implement distracted driving education and evidence-based strategies for parents

2.6.3 SCAG Transportation Safety and Security Technical Report (2020)⁴

Collision Baseline

On average between 2012 and 2016, 1,500 people are killed, 5,200 are seriously injured, and 136,000 are injured in traffic collisions each year in Southern California. About 10% of all traffic collision victims and 5% of fatal collision victims are under the age of 18 (about 24% of the region's population) and 9% of all traffic collision victims and 16% of all fatal collision victims are 65 and older (they make up about 12% of the region's population). Based on the regional high-injury network conducted, 66% of the network is in the disadvantaged communities in the SCAG region.

Safety Goals

- » Improve mobility, accessibility, reliability, and travel safety
- » Increase maintenance, enforcement, and construct new travel mode options
- » Start with supporting Disadvantaged Communities, older adults, children, walkers, and bikers
- » Increase travel choices to increase the throughput of people and goods

Safety Strategies

- 1. Reduce aggressive driving and speeding through:
- » Public outreach campaigns specifically addressing speeding and aggressive driving
- » Identifying locations of speed-related crashes
- » Setting safe and reasonable speed limits

- 2. Improve safety for aging population through:
- » Roadway, intersection, and interchange improvements that support right-of-way decisions by older road users
- » Implementing design treatments that support safety such as curb extensions, bulb-outs and pedestrian refuge islands that shorten crossing distances
- Working with Transit Network Companies (TNCs) to explore programs that support transportation options for older adults
- » Establishing Safe Routes for Seniors programs
- 3. Improve bicyclist safety through:
- » Connecting bicycle facilities, including regionally significant bicycle corridors for bicycle travel throughout the region
- » Developing and implementing active transportation master plans
- » Adopting Complete Streets policies—providing safe access for all modes—as fundamental principles of transportation plans
- 4. Improve safety at intersections through:
- » Incorporating intersection safety into the planning grant strategy
- » Incorporating Intelligent Transportation Systems (ITS) at high incident intersections to reduce red-light violations causing collisions
- » Implementing infrastructure improvements including but not limited to clearly marked crosswalks, median sanctuaries for pedestrians, signalization at problem non-signalized intersections, advanced stop bars and sharks teeth, yield markings, and changing intersection geometries to improve safe
- 5. Improve pedestrian safety:
- Continuing to work with local jurisdictions to provide a comprehensive education for all road users
- » Developing pedestrian safety action plans based on FHWA criteria.
- » Ensuring all sidewalks and intersections are ADA compliant
- » Considering pedestrian needs in all roadway and transit projects



2.6.4 Los Angeles County Vision Zero (2019)⁵ Collision Baseline

This Vision Zero Action Plan focuses on the County's efforts between 2000-2005 to achieve the goal of eliminating traffic-related fatalities on unincorporated County roadways by 2035. Although pedestrians were involved in 9% of all injury collisions on unincorporated County roadways (including those resulting in complaints of pain, visible injuries, severe injuries, and fatal injuries) from 2013 to 2017, they were involved in 20% of fatal and severe injury collisions. Between 2013 and 2017, nearly half (48%) of those who died or were severely injured in collisions on unincorporated County roadways were 15 to 34 years old.

Safety Goals

Three guiding principles will direct decision making as the County implements Vision Zero actions:

- » Health Equity: Reduce gaps in health outcomes by addressing the practices that disadvantage some populations over others and lead to health inequities
- » Data-driven process: Identify where and why traffic collisions are happening and prioritize projects and programs in these areas
- » Transparency: Maintain regular communication with the public about progress, and how the County is working to enhance traffic safety

Safety Strategies

- » Enhance County Processes and Collaboration
- » Address Health Inequities and Protect Vulnerable Users
- » Collaborate with Communities to Enhance Roadway Safety
- » Foster a Culture of Traffic Safety
- » Be Transparent, Responsive, and Accountable

2.6.5 Los Angeles Metro Active Transportation Strategy Plan⁶

Collision Baseline

This plan focuses on improving infrastructure for active transportation throughout Los Angeles County. Active transportation by bicyclists and pedestrians accounts for 19% of all trips in Los Angeles Metro but accounts for 40% of traffic fatalities. Installing bicycle lanes can reduce cycling injuries by 50%. The addition of physical barriers for cyclists can drop the rate of injury by 99% and can reduce sidewalk riding by over 90%.

Safety Goals

- » Improve access to transit
- Establish active transportation modes as integral elements of the countywide transportation system
- » Enhance safety, remove barriers to access, or correct unsafe conditions in areas of heavy traffic, high transit use, and dense bicycle and pedestrian activity
- » Promote multiple clean transportation options to reduce criteria pollutants and greenhouse gas emissions, and improve air quality
- » Improve public health through traffic safety, reduced exposure to pollutants, and design and infrastructure that encourage residents to use active transportation as a way to integrate physical activity into their daily lives
- » Foster healthy, equitable, and economically vibrant communities where all residents have greater transportation choices and access to key destinations, such as jobs, medical facilities, schools, and recreation

Safety Strategies

- » Identify improvements that increase first last-mile access to transit by active modes
- » Work with partners to create a regional active transportation network
- » Develop supporting programs and policies related to education, enforcement, encouragement, and evaluation
- » Provide guidance for setting regional active transportation policies and guidelines to guide future investment
- » Develop a funding strategy and explore opportunities to expedite implementation

2.6.6 City of Los Angeles Vision Zero (2017)⁷ Collision Baseline

This goal of the City of Los Angeles Vision Zero plan is to achieve zero traffic-related deaths by 2025. In 2013, 978 people suffered severe injuries in collisions and 201 people were killed. People walking and bicycling are over-represented among traffic deaths. People walking and bicycling are involved in only 15% of all collisions, but account for almost half of all traffic deaths, and 30% of those killed or severely injured are youth and older adults.

Safety Goals

- » Reduce citywide traffic deaths by 20% by 2017, prioritizing pedestrian deaths involving older adults and children
- » Eliminate traffic deaths citywide by 2025

Safety Strategies

- » Focus on vulnerable road users is not only an ethical objective, but it is also the smartest tactic to achieve zero deaths
- » Develop a Safe Routes to School Action Plan
- » Implement engineering safety countermeasures such as scramble crosswalks, which restrict vehicle turns for a brief period while allowing people to cross the street in all directions
- » Leading pedestrian intervals, which give a pedestrian a "head start" when entering the intersection—improve the yielding rate of drivers at signalized intersections

2.6.7 Safe Streets, Long Beach, A Vision Zero Action Plan (2020)⁸

Collision Baseline

The Long Beach Vision Zero Action Plan provides analysis and recommendations to help reduce fatalities and serious injury from vehicle-related crashes. The plan highlights an increase of traffic-related fatalities and serious injuries from 113 in 2013 to 162 in 2017 and the need to reverse this trend. A high percentage of fatal and serious injury crash victims on Long Beach are bicyclists, pedestrians, and motorcyclists (65%) compared to the percentage of all traffic collisions in which these road users were involved (14%). The Long Beach roadway network has four times more miles of local streets than miles of minor arterials. However, minor arterials have 40% more traffic collisions resulting in death or a serious injury. The overall Long Beach Vision Zero goal is to eliminate fatal and serious traffic collisions by 2026.

Safety Goals

- » Increased safety for all by reducing vehicle speeds and reduced travel lane widths
- » Increased bicyclist safety with protected bicycle lanes on both sides of the street
- » Improved pedestrian visibility at intersections with continental crosswalks
- Increased motorist awareness and bicyclist visibility at conflict zones (intersections and driveways) with green markings in the protected bicycle lane
- » Reduced potential for severe collisions with roundabout and traffic circles
- » Prioritized bicyclist and pedestrian travel with signage and pavement markings
- Increased bicyclist and pedestrian safety by improving visibility and reducing vehicle speeds with corner bulbouts
- » Improved pedestrian safety with reduced crossing distance and continental crosswalks



Safety Strategies

Strategies that the City is prioritizing to reduce collisions include:

- » Better street design to improve traffic safety
- » More and better education about traffic safety
- » More enforcement of traffic violations

Overall actions that are being implemented for Vision Zero include:

- » Dedicating Resources to Vision Zero Actions-a new Vision Zero Coordinator position
- » Building Safe Streets-reduce motorists speeds, protected bikeways, sidewalks, crosswalks
- » Improving Data and Transparency-collect more and better data on transit, walking, bicycling, collisions
- » Promoting a Safety Culture-Expand Safety Education Campaign
- » Enhancing Processes and Partnerships-City partnering with Schools, AARP, Local Groups, SCAG *Go Human*, County, Caltrans
- » Equity-Prioritize investments at high-injury locations (frequently in low-income areas)

2.7 Vision Zero Benchmarking

In California, there are many examples of Vision Zero in action. The team interviewed five jurisdictions - the City of Berkeley, Culver City, Daly City, Long Beach, and Santa Ana - to learn more about their approaches to Vision Zero. The main takeaways from each interview are illustrated in Table 2-4. Additionally, the City of Fremont Vision Zero Plan was reviewed for benchmarking because of their demonstrated results since adopting a Vision Zero Plan in 2016.

In the United States, there are over 40 cities with Vision Zero policies, but most cities continue to experience increases in fatalities or numbers that remain static. Cities that have seen impressive reductions in fatalities and serious injuries - notably, San Francisco and New York - have implemented wide-scale use of "tactical urbanism." Tactical urbanism includes low-cost changes to the built environment to improve safety and accessibility. This Plan recommends several low-cost tactical urbanism projects for El Monte to advance Vision Zero goals. Not all cities are ideal to compare to El Monte, but there are usually at least small lessons to be learned from each city.

The City of Fremont, California is an excellent comparison to El Monte in terms of built-environment characteristics and traffic safety solutions. Fremont has twice the population and one-fourth the density of El Monte, yet the road network structure is similar enough to El Monte to be used as a model city for Vision Zero practices. Moreover, both cities are bedroom communities located approximately 15 miles from major metropolitan core areas.

 TABLE 2-4:
 California Vision Zero Projects 6 Es Takeaways

CITY	EDUCATION	ENCOURAGEMENT	ENFORCEMENT	ENGINEERING	EQUITY	EVALUATION
Berkeley	» Project website» Branding	 » Seek out grant opportunities » Increased number of Vision Zero capi- tal projects 	 Advocating for local agencies to have the power to reduce speed limits Legalizing automated enforcement 	» Quick-build pro- jects	» Separating traffic enforcement from police department	
Culver City	 » Project website » Targeted campaigns for working adults and seniors 	» Focus on outreach to older adults	 Police Department is using funds to improve data and software updates Increase police patrol 	» Pursue grants for infrastructure funding	» Policies from the Bicycle and Pedes- trian Action Plan	» Annual data report, data goes to traffic committees
Daly City	» Outreach and community events	» Seek out grant opportunities	» Monthly meetings with police	» Quick-build pro- jects	Work with San Mateo County Health to better understand inequities to deliver projects and programs equitably	» Measure success through 5-year reports
Fremont	 » Vision Zero sticker program » Youth Service Corps "Look for Safety" Program 	Monthly meetings with traffic en- forcement officers and transportation engineers	 High-visibility traffic stops to pro- vide warnings and education 	 » Lowered posted speed limit on more than 50 street segments » Quick-build projects 	The Engage Fremont initiative	 Transportation Engineers receive crash reports with- in 30 days of the crash. Fremont evaluates historical crash data to identify such hot spots
Long Beach	 Education about riding in bicycle lanes with direction of traffic 		» Automated en- forcement	» Analysis to de- crease speed limits	» Bicycle and safety education at schools and vari- ous neighborhoods	» Improve data collection methods
Santa Ana	 Outreach events Bicycle rodeos Teaching children and parents at schools 	» Seek out grant opportunities	 » Quarterly meetings with police » Police handing out more speeding citations 	 » Pursue grants for infrastructure funding » Developing complete streets plan and sidewalk surveys 	 Attend local neighborhood meetings to discuss bicycle and pedestrian safety Inclusive community engagement for complete street projects 	Conducting speed surveys at intersec- tions with improve- ments



2.7.1 Mapping in Fremont

There are many reasons why Fremont is considered one of the best examples on how to reach Vision Zero, besides the obvious reason that they've witnessed a significant drop in their traffic fatalities and serious injuries. For starters, when a severe-injury or fatality occurs, it is mapped in AutoCAD for use by the transportation department. Crashes that are clustered together indicate opportunities for improvement, which can be as simple as installing signage and vertical posts to improve driver yielding. Moreover, since the map is frequently updated, future infrastructure projects are based in the communities with the most need, not the most vocal, ensuring that dollars are spent equitably and efficiently

2.7.2 Partnerships in Fremont

Fremont maintains strong internal cross-agency partnerships and relies on high-quality quantitative and qualitative data to make decisions, often in real-time, thanks to radar speed feedback signs. For example, the Public Works Department and the Police Department work closely together to maintain a map of high-risk crash locations. The map is generated using AutoCAD, software typically reserved for developing design plans, which the city already had in place. Fremont transportation engineers typically receive crash reports within 30 days of a crash, much faster than in many other cities, where the wait may be a year or more after a crash occurs.

These partnerships extend outside the planning department. For example, the Fremont Police Department largely conducts high-visibility traffic stops to provide warnings and education, rather than issue tickets and fines. This measure creates a visible enforcement presence without generating economic hardship.

2.7.3 Engineering in Fremont

Traffic engineers in Fremont use innovative techniques to solve problems. For example, the City's infamous high-speed "Grimmer Curve" was often featured in the media as a crash hot spot. Fremont tried "traditional" solutions, such as curve warning lights and high friction surface treatment, but with little success. After a crash that resulted in a vehicle in a backyard swimming pool, the City restriped the curve with narrower, National Association of City Transportation Officials (NACTO) approved 10-foot travel lanes, a buffered bicycle lane, and a K-rail in the bicycle buffer, which protected bicyclists and forced motorists to drive at slower, safer speeds. The results were immediate and impressive. There have been no major crashes on the Grimmer Curve since the improvements were installed in 2016. Similar projects could occur on multi-lane roads in El Monte with crash issues.

Similar to El Monte, Fremont also has limited accessibility crossing locations for people walking. Forty crosswalks in Fremont were uncontrolled and located on multi-lane, high-speed roadways. The City made extensive use of inexpensive, temporary, "quick-build" projects to improve safety for drivers, pedestrians, bicyclists, and transit users alike in a relatively short period of time. Fremont also restriped 47% of the City's arterial roadways, built Dutch-style intersections known as "protected intersections," upgraded dozens of crosswalks, reduced speeds on more than 50 street segments, converted its streetlights to use "white" LED lights, and decreased the number of lanes in several roadways (known as "road diets").

Fremont's safety improvements focused in large part on their 40 schools, which witnessed more than 400 traffic safety improvements after 2015. From 2013 to 2015, Fremont saw nine major crashes involving individuals 15 years of age or younger. It had just one such crash from 2018 to 2020.

2.7.4 National Vision Zero Benchmarking Research

A research team led by Robert Schneider, Rebecca Sanders, Frank Proulx, and Hamideh Moayved undertook the largest Vision Zero pedestrian fatality research study of its kind. After studying more than 62,000 incidents across 16 years, the researchers generated a list of more than 60 "hotspot" corridors where at least six pedestrians had lost their lives along a specific, 1,000-meter stretch of road in eight years or less. The results were groundbreaking and will likely have profound implications on how pedestrian safety is designed in the future. No matter the location, the design of the deadly roads were much the same: ultra-wide, blisteringly fast, and flanked by businesses to which residents walk every day. A remarkable 97% of the hotspots had three lanes or more, and 70% forced pedestrians to cross at least five lanes of traffic in order to reach the other side. More than 75% had speed limits of over 30 mph, a speed at which an estimated 40% of pedestrians will die when struck by a vehicle, and 100% of them were flanked by retail, grocery, or other essential services. These results have implications for the City of El Monte as they look to allocate limited funds in an effective manner.

This research finds that where people walking are hit by people driving motor vehicles is far from random. These tragic incidents are, largely, predictable, and preventable. The roads that are deadly for people walking (and, usually, also for bicycling and driving) are, for the most part, very wide and fast, carrying a lot of car traffic, and flanked by businesses that draw visitors. The research confirmed that generally it's intuitive which roadways need proactive attention to reach Vision Zero. Both the experience from the City of Fremont and the results from the large pedestrian fatality research set the stage for objectives and strategies to be used in El Monte, as explained in Chapter 6.

Endnotes:

¹Highway Functional Classification Concepts, Criteria, and Procedures Definition. https://www.fhwa.dot.gov/planning/processes/statewide/related/highway functional classifications/section03.cfm#Toc336872980

²Assembly Bill 43. https://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill id=202120220AB43

³California Safe Roads Implementation Plan for 2020-2024 Strategic Highway Safety Plan (2021). https://dot.ca.gov/-/media/dot-media/programs/safety-programs/documents/shsp/2020-2024-shsp-implementation-plan-march-2021-a11y.pdf

⁴SCAG Transportation Safety and Security Technical Report (2020). https://scag.ca.gov/sites/main/files/file-attachments/2021-transportation-safety-full-report.pdf?1641417608

⁵Los Angeles County Vision Zero (2019). https://pw.lacounty.gov/visionzero/

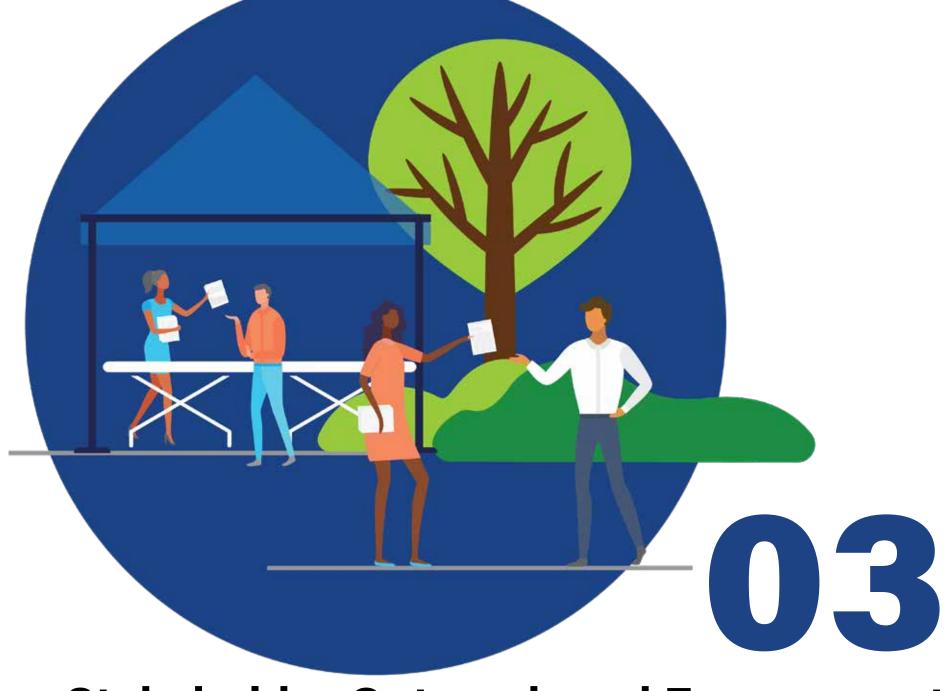
[©]Los Angeles Metro Active Transportation Strategy Plan (2016). https://www.dropbox.com/sh/dtuy70ydn1pxf8o/AADhHaYBOnWX-06uVDQ0K-Ssva?dl=0

²City of Los Angeles Vision Zero (2017). https://viewer.joomag.com/vision-zero-los-angeles/0915902001459876247?short

⁸City of Long Beach, A Vision Zero Action Plan (2020). https://www.longbeach.gov/globalassets/go-active-lb/programs/safe-streets-lb-action-plan---07-07-20v2



PAGE INTENTIONALLY LEFT BLANK



Stakeholder Outreach and Engagement

3.1 Stakeholder Outreach and Engagement Overview

In light of COVID-19 and the Governor's stay-at-home order, traditional in-person outreach strategies were modified to safely engage with members of the public. When the project's public engagement plan was created, state and local regulations prohibited all social gatherings of more than 10 people. Due to COVID restrictions, the project team could not hold as many in-person workshops or pop-up events and community engagement tools such as online surveys and maps with comments were enabled. Some events were not held or canceled early in the planning process, so alternative tools and strategies were used. State and local regulations were relaxed during the course of the project, and eventually, some in-person outreach was conducted. In summer and fall of 2021, the project team was able to participate in in-person community events like the El Monte Farmers Market.

To drive online engagement, outreach tools were developed based on direction received from the Technical Advisory Committee. Sidewalk decals with a QR code to the project website¹ - as well as an educational video - were created to garner more engagement for the project. Input gained through online methods was fundamental in keeping the Plan moving forward while ensuring that public input was adequately received in a manner consistent with public health directives.

3.2 Stakeholder Outreach and Engagement Goals

The overall goal of public outreach was to build awareness and support, and solicit feedback on community needs or concerns, for the project across a range of representative stakeholders to build community ownership during the planning process. Three objectives that the project team focused on were:

- 1. Engaging vulnerable road users: Input from school-age children, older adults, and non-vehicle owners was important because they make up the largest percent of pedestrian- and bicyclist-involved collisions.
- 2. Addressing the digital divide: Though early COVID-19 concerns forced a retreat to online outreach methods, in-person, outdoor City events like the farmers market were later targeted to safely hold public outreach events. This was especially important to reach the high percentage of minority, low income, and non-native English speakers in El Monte who have lower access to and engagement with online methods.
- **3.** Communicating in a way residents will understand: Outreach materials were provided in English, Spanish, Mandarin, and Vietnamese, and staff at in-person events were fluent in English, Spanish, and Mandarin.



3.3 Stakeholder Outreach and Engagement Strategies

The project team developed an outreach strategy with ways to engage people of all ages and demographic backgrounds. Key messages and outreach strategies were created to gather feedback, paying particular attention to the Hispanic, Vietnamese, and Chinese communities and providing surveys in their respective languages.

3.3.1 Marketing Materials

- » Marketing materials included content for the City website¹ and print materials to post throughout the community.
- » Marketing materials included a project fact sheet, social media posts, and newsletter text.

Project Fact Sheet

The project fact sheet was shared on the project website, the City of El Monte's Social Media, and handed out at outreach events. The fact sheet included details about what Vision Zero is and what it means for El Monte as well as a scannable QR code with access to the project website.

Social Media Posts and Newsletter Text

Social media posts and newsletter text enabled methods of digital and print outreach to share project updates on the project. Social media posts included information on the project website, the online survey, and updates on any upcoming outreach events. Other project updates and newsletter text came directly from monthly project update meeting minutes.



Examples of Flyer, Fact Sheets, and Social Media Posts

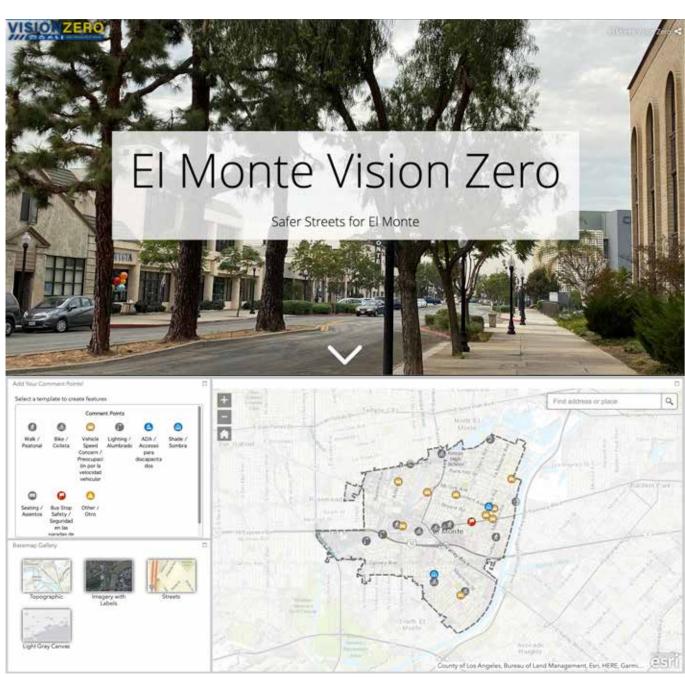
3.4 Project Website

The project website was an ESRI StoryMap that provided project information and input opportunities. The StoryMap was active for the project's duration. It contained an overview of the project and an interactive map for visitors to input information. Examples from the project website, such as the online comment map are displayed on the right.



Project Website QR code





Project StoryMap

3.5 Technical Advisory Committee

The Technical Advisory Committee (TAC) was an advisory body of 10 professionals from eight organizations with subject matter expertise related to the Plan, including representatives from Access Services, Active San Gabriel Valley (ActiveSGV), Caltrans, City of El Monte, Eco Urban Gardens, El Monte City School District, El Monte Union High School District, and Mountain View School District. Participants in the TAC were invited by City staff to broadly represent El Monte's community needs and interests. The TAC was tasked with providing feedback on engagement plans and findings, promoting engagement opportunities to their networks, and giving input on Plan needs and recommendations. The TAC met via video conference four times throughout the project:

TAC meetings were held virtually on:

TAC Meeting #1 - January 19, 2021

- Focus on the project overview and what community outreach efforts were being made
- Open discussion on the safety of roadways in El Monte, many brought up unsafe speeds and unsafe road/sidewalk conditions

TAC Meeting #2 - October 26, 2021

- » Discussed concerns about bicyclist and pedestrian safety in El Monte
- » Reviewed the High-Injury Network, updates on outreach events, and project recommendations

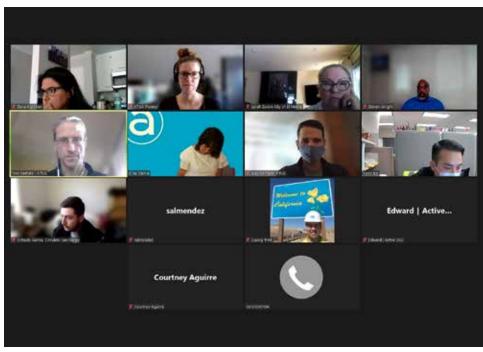
TAC Meeting #3 - January 20, 2022

» Reviewed and discussed draft plan

TAC Meeting #4 - February 10, 2022

» Reviewed and discussed the final plan

Additional consultations and presentations were conducted with the Los Angeles County Fire Department to understand future roadway requirements for emergency vehicles; the City of El Monte Traffic Safety Committee to gain technical feedback on proposed improvements; and the El Monte Police Department to understand challenges in traffic enforcement and solicit ideas to reduce fatalities and serious injuries.



Members of the TAC on Zoom meeting

3.6 Outreach Tools

3.6.1 Sidewalk Decals

To draw and engage more public attention to the project website, online survey, and comment map, the project team installed 20 temporary sidewalk decals throughout El Monte in areas of high pedestrian traffic from May 16 to June 1, 2021.

3.6.2 Educational Video

A two-minute educational video was created that introduced the concepts and goals of Vision Zero through statistics for traffic collisions and examples of safe roadway designs. The video was posted to the City of El Monte's social media handles and on the project website.





Infographic in Educational Video

3.7 Outreach Events

3.7.1 Farmers Market #1

The August 19, 2021 Farmers Market event was the first in-person outreach event due to COVID-19 restrictions. The El Monte Vision Zero Action Plan booth included interactive activities such as dot voting, games, and information for the location and type of proposed improvements. The top amenities from the dot voting boards were: bus shelters, urban greening/street trees, docked bicycles, separated bikeways, and rectangular rapid flashing beacons (RRFB).

3.7.2 Farmers Market #2 / Go Human

Public outreach at the second Farmers Market event on September 30, 2021 was paired with a *Go Human* event to demonstrate some of the proposed improvements. There were demonstration projects throughout the farmers market, including a parklet and an artistic crosswalk. At each demonstration site, a team member was available to discuss the benefits of these features with residents and hand out surveys to gather feedback. Some of the top features chosen by the public were: multi-use paths, neighborhood greenway, RRFB, urban greening, scooter-share, and docked bicycles.

3.7.3 Public Presentation of Draft Action Plan

The January 27, 2022 public presentation of the draft El Monte Vision Zero Action Plan was hosted on Zoom due to COVID-19 restrictions. The draft Plan was presented to the public, chapter by chapter with additional time to answer any questions that arose. The feedback from the public was very positive, with a member commenting that they like that this project opens the opportunity to discuss traffic safety with friends and neighbors.

3.7.4 Public Presentation of Final Action Plan

The February 8, 2022 public presentation of the final El Monte Vision Zero Action Plan was hosted on Zoom due to COVID-19 restrictions. The final Action Plan was presented to the public, with time to answer any questions. Discussion focused on ways to improve traffic safety on main arterial roads and locations in the City where bicycle lanes could be improved.

Farmers Market #1





What We Heard:

"Having on-street bicycle lanes would make me want to use my bike more."



Farmers Market #2



What We Heard:

"El Monte is a wonderful city and these walking and bicycling improvements could attract more people."





Public Presentation



Key Facility Types (intersections)

What We Heard:

"I enjoy the way this plan addresses safety and opens the opportunity to discuss traffic safety with friends and neighbors."

3.8 Online Survey

The online survey was sent out to El Monte residents addressing safety concerns while walking, bicycling, and using a mobility devices throughout the City.

The results from the 81 respondents were analyzed and used to develop the recommendations shown in Chapter 6. Complete survey results are included in Appendix A.3. The survey also provided the City with a current view of people's opinions, concerns, and desires for pedestrian and bicycle facilities. According to the survey results, 83% of survey respondents lived in El Monte and the majority of survey respondents were between the ages of 25-54. When asked how frequently they used different types of transportation, the results showed that personal vehicles, walking, and transit were utilized most. Respondents were also asked their concerns when it came to using their personal vehicle, transit, walking, bicycling, and using a mobility device. The top concerns expressed for each category were:

- » Vehicle: road conditions, traffic speeds, and safety sharing the road with bicycles and other wheeled vehicles
- » Transit: lack of lighting, homelessness, and missing transit shelters
- Walking: lack of sidewalks or disconnected sidewalks and unmaintained sidewalks
- » Bicycling: lack of infrastructure for bicycles and exposure to high motor vehicle speeds and volumes
- » Mobility Device: lack of sidewalks or disconnected sidewalks and unmaintained sidewalks

Vehicle



Road Conditions

Transit



Lack of Lighting

Walking/ Wheelchair



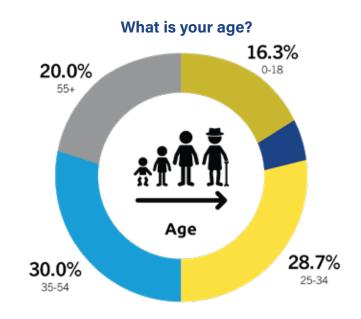
Lack of Infrastructure



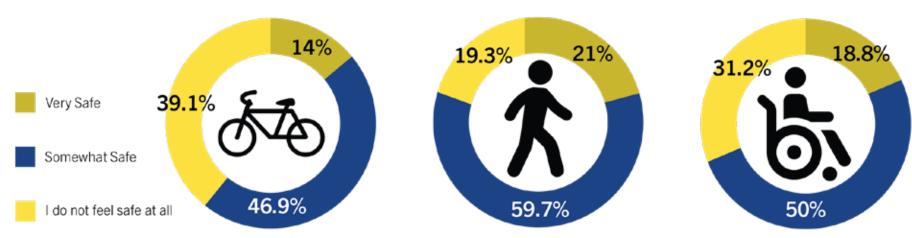


Along with asking about residents' concerns, the survey also asked about the ease of walking, bicycling, and using a mobility device and what would make using these methods of transportation easier in El Monte. Wider sidewalks, street lighting, and street trees/parkways were all elements that would encourage El Monte residents to walk more. Similarly, on-street bicycle lanes, separated bicycle lanes, bicycle-share, and improved street lighting would encourage El Monte residents to bicycle more. Residents who use a mobility device stated that the repair of damaged sidewalks, continuous sidewalks, and Americans with Disabilities Act (ADA) ramps would make it easier to get around El Monte.

Additionally, residents were asked to rank how safe they felt when walking, bicycling, or using a mobility device in El Monte. Across all transportation modes, a minority of survey respondents felt "very safe" traveling in El Monte. The results indicated that when walking, 60% felt somewhat safe, 21% of respondents felt very safe, and 19% did not feel safe at all. In terms of bicycling, more residents mentioned that they did not feel secure, with 47% feeling somewhat safe and 39% not feeling safe at all. Half of the individuals who use a mobility device felt somewhat safe, and 31% did not feel safe at all.



How safe do you feel bicycling/ walking/ using a mobility device in El Monte?



Endnotes:

¹ El Monte's Public Works-Vision Zero. https://www.ci.el-monte.ca.us/291/Public-Works



Vision, Goals, and Objectives

4.1 Vision Statement

The vision for this Plan is adapted from the national Vision Zero Networks' Vision Statement to:

Develop programs and projects in El Monte to eliminate all traffic fatalities and severe injuries, while increasing safe, healthy, and equitable mobility for all El Monte community members.

El Monte streets should be safe for all roadway users, no matter where they go, or how they get there. As the region and El Monte's population grows, more people will be walking, bicycling, taking transit and driving on City streets. This Plan lays out steps to take to reach that level of safety, starting with emulating best practices from other cities with benchmarking.



4.2 Goals, Objectives, and Strategies

Improving the way El Monte residents travel throughout the City with effective, safe and attractive facilities to all roadway users is the focus of the goals and objectives. This section outlines key Vision Zero goals, objectives, and strategies to improve safety for all vulnerable roadway users. Goals and objectives are an integral part of any plan because they provide the direction to achieve the vision. The goals, objectives, and strategies presented in this section, are organized by the six Es and were prepared based on review and assessment of existing goals and strategies; feedback received during the public involvement process; feedback from TAC members; and the review of local and regional transportation planning documents.

The intent of this chapter is to provide best practice strategies to allow the City to determine the best strategy to meet community needs and the ability to reach the goal of zero fatalities. The timeframe provides an estimated completion time once the program has been started or if the plan or program should be ongoing. They are in order of the shortest timeframe to implement. The intent of this chapter is to provide El Monte with best practice strategies to employ to reach the goal of zero fatalities.

Table 4-1 summarizes the vision zero principles, goals, and objectives.



EDU GOAL

01

Enhance safety education programs for all ages and abilities

Objective: Develop and implement an array of educational strategies that will serve to inform bicyclists, pedestrians, drivers, and regional stakeholders about the El Monte Vision Zero program.

STRATEGY	TIMEFRAME	RESPONSIBILITY
Use open streets events to promote understanding and empathy among roadway users and provide community members with an opportunity to talk with City staff and provide ongoing feedback.	Ongoing	Mayor's Office, Public Works, Planning, Community Partners, Police Department
Coordinate with LA DOT Livable Streets to develop a Safe Routes for Seniors (SR4S) program with the goal of eliminating crashes that lead to deaths and serious injuries for aging adults.	Ongoing	Public Works, Planning, Community Partners, Police Department
Continue the 2018 Walking School Bus Program.	Ongoing	Public Works, Planning, Community Partners
Develop a multimodal safety educational campaign targeted on the most dangerous roadway behaviors.	1-2 years	Public Works, Economic Development, Community Partners
Engage local stakeholders to improve the regional awareness of the Vision Zero program.	1-2 years	Public Works, Economic Development, Community Partners
Conduct annual Bicycle Rodeos focusing on coordinating with schools and seniors.	1-2 years	Mayor's Office, Public Works, Planning, Community Partners, Police Department
Develop media campaign strategy.	Within 3 years	Public Works
Expand youth-focused pedestrian and bicycle safety education programs in schools and at school events such as Bike to School Day and Walk to School Week.	Within 3 years	Public Works, Planning, Community Partners
Create culturally competent and accessible education campaigns and outreach to create traffic safety champions and shift culture through communication tools (bus ads/shelter ads, radio, social media) about the top crash factors in severe and fatal injuries and other dangerous driving behaviors. Highlight the prevalence and impact of distracted and impaired driving and the benefits of seat belt, car seat, and helmet use. Coordinate City and regional messaging for maximum impact.	Within 3 years	Mayor's Office, Public Works, Planning, Community Partners, Police Department





EDU GOAL

02

Employ quick-build bicycle and safety projects

Objective: To identify road safety projects with low-cost elements that can be installed in a short time frame.

Quick-Build projects are reversible, adjustable traffic safety improvements that can be installed within months. In one Quick-Build example in August of 2021, Active SGV staff installed a temporary bike lane, high visibility crosswalks and curb extensions on Popular Boulevard in northwest Alhambra.



STRATEGY	TIMEFRAME	RESPONSIBILITY
Reference project examples in this Plan to identify low-cost alternatives such as striping, bollards, landscaping and signage to implement a quick-build.	Ongoing	Public Works
Continue to coordinate with SCAG on Go Human campaigns to install temporary demonstration projects with an emphasis near parks and schools.	Ongoing	Public Works, Economic Development, Planning, Recreation
Seek grant funding from agencies such as Caltrans SCAG to fund quick-build projects.	1-2 years	Public Works, Planning



ENCOURAGEMENT (ENC)

ENC GOAL

01

Provide for safe and comfortable safe routes to schools

Objective: Identify bicycle and pedestrian improvements and programs focused on schools to encourage more walking and bicycling.

STRATEGY	TIMEFRAME	RESPONSIBILITY
Conduct surveys to gather feedback on bus stops, bicycle and pedestrian facilities within 0.5-mile from schools.	Ongoing	Public Works, Planning, Community Partners
Implement bicycle facility connectivity within three miles of bus stops and parks to support first and last mile connections and safe routes to parks.	Ongoing	Public Works, Planning
Implement pedestrian improvements within a 0.5-mile of bus stops and parks to support first and last mile connection and safe routes to parks.	Ongoing	Public Works, Planning
Target encouragement programs to focus on the "interested but concerned" population of El Monte. Explore SmartTrips program¹.	Ongoing	Public Works, Planning
Develop a First and Last Mile to Transit Plan.	1-2 years	Public Works, Planning
Identify improvements aimed at enhancing the safety of existing roadway users (e.g. traffic signal coordination, traffic circles, roundabouts, bicycle facilities, etc.).	1-2 years	Public Works, Planning
Continue to build partnerships with schools and the school districts to continue to apply for Safe Routes to School Plans and Programs.	Within 3 years	Public Works, Planning, Community Partners
Explore bicycle and scooter share programs.	Within 3 years	Public Works, Economic Development, Planning



ENCOURAGEMENT (ENC)

ENC GOAL

02

Design and promote human-centered streets

Objective: Prioritize streets for safety, aesthetics and placemaking to promote active transportation mobility.

STRATEGY	TIMEFRAME	RESPONSIBILITY
Implement bicycle and pedestrian connectivity focused on bus stops, schools, parks and retail.	Ongoing	Public Works, Planning
Utilize the streetscape and plazas to establish a character or theme for special areas, historic districts, activity centers, neighborhoods, or gateways.	Ongoing	Public Works, Planning
Utilize streetscapes and plazas to provide visually attractive and physically comfortable environments that are integrated with similar environments of adjacent private property.	Ongoing	Public Works, Planning
Integrate wayfinding, signage and public art into the bicycle and pedestrian network.	Ongoing	Public Works, Economic Development, Planning





ENFORCEMENT (ENF)

ENF GOAL

Partner with the Police Department to focus on traffic safety enforcement and educational safety campaigns

Objective: Continue to collaborate with the El Monte Police Department to enforce traffic safety laws, regulations, educate on new bicycle and pedestrian facilities and develop evaluation and education programs.

STRATEGY	TIMEFRAME	RESPONSIBILITY
Ensure that enforcement and equity are considered in all actions in this Plan to avoid disproportionate impacts to communities of color.	Ongoing	Mayor's Office, City Manager's Office, Public Works, Police Department
Utilize existing funds or pursue funds to improve education and enforcement on high priority corridors. Ensure the City employs proven methods of traffic safety enforcement and proactively seeks opportunities to enhance existing initiatives.	Within 1 year	Mayor's Office, Public Works, Economic Development
Implement automatic Red Light Running Enforcement at intersections.	1-2 years	Public Works, Police Department
Target enforcement of turning vehicles at signalized intersections. Most effective following the installation of Leading Pedestrian Intervals (LPIs) and "No Right Turn on Red" signs.	1-2 years	Public Works, Community Partners, Police Department
Create culturally competent and accessible education campaigns and outreach to create traffic safety champions and shift culture through communication tools (bus ads/shelter ads, radio, social media) about the top crash factors in severe and fatal injuries and other dangerous driving behaviors. Highlight the prevalence and impact of distracted and impaired driving and the benefits of seat belt, car seat, and helmet use. Coordinate City and regional messaging for maximum impact.	Within 3 years	Mayor's Office, Public Works, Planning, Community Partners, Police Department



ENG GOAL

01

Improve infrastructure to increase roadway safety for all users

Objective: Develop and implement a strategy that employs best planning, design, and engineering practices.

STRATEGY	TIMEFRAME	RESPONSIBILITY
Assess, identify and recommend high priority locations for safety improvements and/or traffic calming measures.	Ongoing	Public Works
Utilize the high-injury network methodology developed in this Plan to identify high priority locations. Use both qualitative and quantitative data to identify high priority locations for safety projects near school zones, routes to schools, transit corridors, parks, and other youth-serving or older adult-serving facilities.	Ongoing	Public Works, Planning
Coordinate grants and other funding opportunities with community-based organizations to build support for safer streets by engaging seniors and people with disabilities.	Ongoing	Public Works, Planning, Community Partners, Police Department
Use traffic engineering solutions to help improve motorist behavior and help reduce speeding. Target identified high-injury corridors and intersections for speed management strategies.	Ongoing	Public Works, Police Departments
Identify, review and apply for additional grant funding opportunities that would serve to advance the City of El Monte's Vision Zero program.	Within 1 year	Public Works
Train staff on Complete Streets planning and adopt an existing Complete Street Design Manual from an organization such as Caltrans or NACTO.	1-2 years	Public Works, Economic Development, Fire Department
Develop standards for how streets are built and how streets are repayed to better align with Vision Zero goals.	1-2 years	Public Works, Economic Development
Employ temporary traffic control strategies that focus on keeping people safe during construction especially for vulnerable populations.	1-2 years	Public Works
Identify resources and prioritize quick and/or low-cost improvements.	1-2 years	Public Works
Use signal timing modifications to ensure safe and predictable movements, especially for pedestrians and bicyclists.	1-2 years	Public Works
Develop a data sharing portal that promotes transparency and accountability.	1-2 years	City Manager's Office, Pubic Works, Finance, Police Department
Develop and implement policies and a plan to fully accommodate people with disabilities, pedestrians, and bicycles.	Within 2 years	Public Works, Planning
Ensure all intersections on the high-injury network have high visibility crosswalks.	Within 5 years	Public Works





ENG GOAL

Lower Vehicle Speeds

Objective: Slow motorists down to make streets more inviting for people walking and bicycling to contribute to neighborhood livability.

STRATEGY	TIMEFRAME	RESPONSIBILITY
Develop a comprehensive speed management plan with the goal of slowing vehicle speeds on the high-injury network using speed limit reductions (as authorized by AB 43), traffic signal retiming, installing traffic calming devices, and repurposing travel lanes (road diets).	1-2 years	Public Works, Police Departments
Reduce speed limits on residential streets through a 20 mph zone program.	Within 3 years	Public Works, Police Departments



EQU GOAL

01

Prioritize road safety investments through an equitable lens

Objective: Ensure all roadway safety interventions are just and equitable for communities of color, as they are disproportionately affected by traffic-related serious injuries and fatalities.

STRATEGY	TIMEFRAME	RESPONSIBILITY
Participate in policy reform efforts in favor of increasing pedestrian and bicycle safety at local and state level.	Ongoing	Mayor's Office, City Manager's Office, Public Works
Ensure that demographics and equity are considered in all actions in this Plan to avoid disproportionate impacts to communities of color.	Ongoing	Mayor's Office, City Manager's Office, Public Works, Police Department
Utilize existing grant funds to improve education and enforcement on high priority corridors. Ensure the City of El Monte employs proven methods of traffic safety enforcement and proactively seeks opportunities to enhance existing initiatives.	Within 1 year	Mayor's Office, Public Works, Economic Development
Through guidance from this Plan, continue to analyze the leading causes of crashes/ fatalities in the City.	1-2 years	Public Works



EVALUATION (EVA)

EVA GOAL

01

Monitor and evaluate the success of investments in for vulnerable roadway users

Objective: Annually monitor and document outcomes from infrastructure improvements.

STRATEGY	TIMEFRAME	RESPONSIBILITY
Continue to build upon and update the City's sidewalk and curb ramp database.	Ongoing	Public Works
Complete a specified number of traffic calming devices annually, including locations focused on areas that have been prioritized for seniors, people with disabilities, and schools.	Ongoing	Public Works
Annually collect collision data and evaluate crash trends and the high-injury network. Utilize the data to evaluate collision rates along roadway improvements.	Ongoing	Public Works, Police Department
Collect hospital trauma data (where available) with collision data to track and evaluate Vision Zero goals.	1-2 years	Public Works, Police Department
Develop metrics to optimize traffic signals for all road users and pilot signal timing strategy. Example: Optimize 50 traffic signals within the next 3 years.	1-2 years	Public Works
Develop a collision data sharing portal that promotes transparency and accountability.	1-2 years	City Manager's Office, Public Works, Finance, Police Department
Evaluate the Traffic Division's Collision Investigation Unit and data collection technology. Consider grant funding opportunities for improved data collection.	Within 3 years	Mayor's Office, Police Department

TABLE 4-1: Safety and Vision Zero Core Principals

•		1					
EL MONTE VISION ZERO GOALS	ASSEMBLY BILL 43 (2021)	CALIFORNIA SAFE ROADS IMPLEMENTA- TION PLAN FOR 2020-2024 SHSP (2021)	SCAG 2020 TRANSPORTA- TION SAFETY AND SECURITY TECHNICAL RE- PORT (2020)	LOS ANGELES COUNTY VISION ZERO (2019)	LA METRO ACTIVE TRANSPORTATION STRATEGIC PLAN (2016)	CITY OF LA VISION ZERO ACTION PLAN (2017)	SAFE STREETS, LONG BEACH, A VISION ZERO ACTION PLAN (2020)
EDUCATION							
EDU 1. Enhance safety education programs for all ages and abilities	x	x	х	x	x	х	x
EDU 2. Employ quickbuild bicycle and safety projects							x
ENCOURAGEMENT							
ENC 1. Provide for safe and comfortable routes to schools, parks and transit	x	x	х	x	х	х	x
ENC 2 . Design and promote humancentered streets					x		x
ENFORCEMENT							
ENF 1. Partner with the Police Department to focus on traffic safety enforcement and educational safety campaigns				x	x	х	X
ENGINEERING							
ENG 1. Improve infrastructure to increase roadway safety for all users	x	x	х	x	x	х	x
ENG 2. Lower Vehicle Speeds	х	х	х	х	х	х	x

		CALIFORNIA	SCAG 2020				SAFE STREETS,
EL MONTE VISION ZERO GOALS	ASSEMBLY BILL 43 (2021)	SAFE ROADS IMPLEMENTA- TION PLAN FOR 2020-2024 SHSP (2021)	TRANSPORTA- TION SAFETY AND SECURITY TECHNICAL RE- PORT (2020)	LOS ANGELES COUNTY VISION ZERO (2019)	LA METRO AC- TIVE TRANSPOR- TATION STRATE- GIC PLAN (2016)	CITY OF LA VISION ZERO ACTION PLAN (2017)	LONG BEACH, A VISION ZERO ACTION PLAN (2020)
EQUITY							
EQU 1. Prioritize road safety investments through an equitable lens		X	x	x	x	x	X
EVALUATION							
EVA 1. Monitor and evaluate the success of investments in for vulnerable roadway users			x	x	x	x	x

Endnote



Proposed Best Practices, Policies, and Programs



5.1 Best Practice Policies and Programs Overview

The focus of this section is the best practice policies to create a city where a primary goal is the reduction in serious roadway injuries and fatalities can be reached by improving conditions for walking, bicycling, and other modes of travel. This section summarizes key regional planning policies, programs, and practices necessary to improve safety for all roadway users, with a focus on those walking and bicycling. The best practice policy examples are aimed to instill collaboration between the various City departments, community partners, and regional agencies. These best practice policies help to implement infrastructure, amenities, strategies, and programs to encourage travel by walking, bicycling, and transit, and to educate the public on overall road safety for all roadway users.

The policies recommended for El Monte, as shown in the subsequent pages, were determined by analyzing policies, goals, objectives, and recommendations from other jurisdictions and TAC and community feedback.

5.1.1 Policies

As previously mentioned, a new 2021 California state law Assembly Bill 43 (AB 43) allows speed limits to be set based on the presence of people walking and bicycling and not based on the 85th percentile speed, as was previously required. This allows agencies to update the legal framework around citywide speed limits to reduce traffic fatalities. Vision Zero for El Monte may pursue local, state, and federal legislation that strengthens traffic safety policy and gives El Monte greater control of street safety. An example policy is to reduce speed limits on residential streets through a 20 miles per hour (mph) zone program.

Local streets with high collision history will be primary priorities and 20 mph zones should be installed within an eighth of a mile of all schools and parks. Moreover, the recommendation is to review arterial speed limits and reduce the posted speed limits on arterials to 30 mph or

lower, where feasible. Cities like Seattle are posting 25 mph speed limits on arterial roadways across the City with excellent results. Speed limit reductions should generally be done in conjunction with tools like radar speed signs and street design changes. El Monte should partner with Caltrans to make any speed changes within Caltrans right-of-way.

5.2 Policy Recommendations

This section details recommendations for the City of El Monte on how to implement Vision Zero strategies to create safer streets for all road users, preventing fatalities and serious injuries.

Achieving the City of El Monte's Vision Zero goals (see Section 4.2) will require political will and public support. It is suggested that adopted policies:

- » Exercise local legislative authority;
- » Be evidence-based to reduce severe and fatal injuries; and
- » Be high-impact initiatives that will significantly move El Monte toward its Vision Zero goal.

In addition, El Monte's Vision Zero policies should center equity as a core principle of Vision Zero. The transportation system should be safe for all road users, all modes of transportation, in all communities and for people of all incomes, races, ethnicities, languages, ages, abilities, and housing statuses. Vision Zero initiatives must also be developed and implemented with an equity lens to achieve just outcomes and save lives; considering community needs and prioritizing the most vulnerable populations is crucial. The following recommended policies are organized by the six Es and correlate with the goals, objectives and strategies from Chapter 4. Adopted General Plan and Complete Street policies that support these Vision Zero Goals are highlighted after each recommended policy.

Several of the recommended policies can achieve a variety of goals, providing multiple benefits. Table 5-1 on page 70 summarizes the recommended policies and their corresponding goals.

5.2.1 Recommended Policies



Policy EDU 1: Assess the potential for Safe Routes programs to Schools, to Transit and for Seniors

El Monte should prioritize traffic calming projects on multi-lane corridors and intersections, especially when in close proximity to schools, transit, and older adult populations. El Monte should build partnerships with school districts and apply for Safe Routes to Schools, to Transit, and for Senior's funding, for both education and infrastructure projects. Grants from OTS, Caltrans' Active Transportation Program, and SCAG's Active Transportation Grant Program can provide funding for these types of activities. Safe Routes funds can be used for planning, engineering, and educational activities.

General Plan Policies:

CD-2.5 Corridor Driveways. Consolidate driveways and access points, wherever feasible, along commercial corridors to improve traffic flow, and safety of users, and allow for coordinated improvements to the streetscape.

CD-2.6 Pedestrian Design. Improve pedestrian safety and comfort along major corridors by incorporating wider sidewalks, appropriate landscape buffers and canopy trees, and other pedestrian amenities to facilitate a walkable street environment.

PR-5.5 Public Awareness. Raise public awareness of the health benefits of walking and bicycling, the safe use of the streets and sidewalks, and the availability of trails, bicycle routes, and greenways.

PSF-1.2 School Programs. Collaborate with El Monte schools to reach youth through high quality after-school/summer programs, childcare programs for parents, diversion programs, and other assistance.

HW-6.4 Bicycle Safety Education. Encourage bicycle safety through education programs targeting bicyclists and motorists and promotional events such as bicycle rodeos and free helmet distribution events.

HW-4.2 Safer Streets. Reduce the potential for car collisions through design improvements, enforcement, and education efforts. Implement the recommendations from the pedestrian safety study. Maintain data on and prioritize improvements for locations with high incidences of pedestrian/vehicle collisions.

Policy EDU 2: Integrate quick-build strategies to expedite traffic calming and roadway safety improvements.

For cities that have infrastructure funding constraints, quick-build projects are crucial to building trust in the government's ability to deliver a project with public benefit. Quick-build infrastructure can engage the public better than ever, and be more inclusive and equitable than traditional infrastructure. Mobility needs will vary depending on the community and may include safer crossings, slower streets, and extended bikeway network, or safer routes to transit, schools, and essential workplaces. El Monte would benefit greatly by exploring integrating quick-build and demonstration policies into new and future infrastructure projects to quickly and efficiently meet mobility needs.

General Plan Policies:

HW-8.4 Street Closures for Events. Facilitate street closures for farmers' markets, arts and craft fairs, ciclovías (bicycle and pedestrian events), and other public events.





Policy ENC 1: Continue to collaborate with local partners to develop safe routes to school, parks and transit programs.

The U.S. Department of Health and Human Services recommends a minimum of 60 minutes of daily physical activity for children to reap significant health benefits. Walking and bicycling to school and parks are fun activities that contribute to this minimum threshold. For many El Monte residents, transit is their mode of transportation so safe routes to their bus stops provide a similar benefit. Compared to children who ride to school in a car or bus, students who use active forms of transportation for their school commute have higher daily physical activity levels, an increased capacity to learn, fewer absences from school, and improved fitness and mental alertness. By developing safe routes to schools, parks and transit activities will encourage residents to walk or bicycle to school as an alternative to commuting by car. The City can collaborate with the Safe Routes to School Partnership, LA Metro or seek grants to develop these programs.

General Plan Policies:

CD-9.5 Streetscapes. Connect residences, schools, parks, and activity centers with streets that accommodate autos, pedestrians, bicyclists, and, in appropriate areas, equestrian uses.

PR-4.2 Connecting People. Create green infrastructure along residential streets and arterials that link residents to schools, parks, neighborhoods, the downtown, and other destinations.

PR-5.1 Sidewalks. Create a network of paths and sidewalks that are safe and accessible to all people, with pedestrian amenities that connect residences to schools, parks, shopping, and public facilities.

PR-5.2 Bicycle Paths. Create a bicycle path network that is consistent with the Circulation Element, and Emerald Necklace Vision, and supports the MTA bicycle hub concept.

C-3.4 Safe Routes to Schools. Work with school districts to identify safe routes to all schools, enabling better school access by cyclists and pedestrians. Support safe drop-off and pick-up zones around schools during the morning and afternoon peak hours.

C-4.5 Improved Bus Transit Amenities. Improve amenities at bus stops, including attractive and convenient stops with shade/weather protection, seats, transit information, bus shelters, landscaping, etc., as appropriate.

HW-5.5 Pedestrian Improvements. Prioritize improvements to sidewalks and the pedestrian environment in the Downtown and areas around schools and parks.

HW-7.2 Safe Routes to School. Create a Safe Routes to School plan in all El Monte schools. Prioritize improvements with the highest safety concerns. Actively seek State and Federal funding to support the Safe Routes to School plan.

HW-7.4 Walking/Bus/Bike Programs. Encourage the creation of "Walking School Bus," "Biking School Bus," "Bicycle Trains," contests and other programs that encourage children to walk or bicycle to school and make it safer to do so.

HW-7.5 School Collaboration. Work collaboratively with the school district, school board, PTA, and community residents to identify and address school access and safety issues. Form a school watch board that includes members of these groups and the Parks, Recreation & Community Services Department at the City level.

Policy ENC 2: Integrate human-centered placemaking amenities in future roadway designs.

El Monte's streets are vital to the way its people view and interact with their environment. Traversed by major highways, El Monte's identity has been profoundly influenced by infrastructure. With its many neighborhoods, districts, and commercial centers, multimodal connections are of great importance. Residents must be able to walk easily and safely to schools, parks, transit and other neighborhood amenities but also have the pedestrian and bicycle scale amenities to encourage walking and bicycling. When re-designing roadways, the human scale should be considered such as adding parkways, trees, benches, shade structures and lighting. Integrating green infrastructure such as trees and stormwater catchment areas can create a shade canopy that reduces the heat reflected from pavement and infrastructure that captures and filters stormwater. Finally, the provide aesthetic and social benefits such as beautification, safety, areas or social interaction and enhancement of property values.

General Plan Policies:

CD-1.2 Gateways and Signs. Continue the City's gateway monument and sign program at primary and secondary entrances to El Monte to heighten the sense of arrival to the community.

CD-1.5 Streetscapes. Develop unifying streetscape plans for major corridors and subdistricts that include specialized streetlights, landscaping, a community forest, signage, and street furniture.

CD-1.6 Public Art. Throughout the community, incorporate a diversity of public art in residential, commercial, and public areas that celebrates the multiple cultures and influences in El Monte.

CD-1.7 Identity. Support the creation of highly differentiated identities for residential, commercial, and industrial areas that support the eclectic physical environment of the community.

CD-2.2 Streetscape Design. Incorporate unifying and consistent elements for major arterials-landscaped parkways and medians, regularly spaced street trees, distinctive street lighting and furniture, and quality and appropriately scaled signage.

CD-2.8 Landscaping. Beautify corridors through specialized landscape palettes tailored to different roadway configurations. Require the incorporation of street trees of sufficient size, canopy, and diversity along roadways.

CD-3.5 Corridor Themes. Adopt landscape themes for major corridors that give special identity to the role, function, and history of each major corridor, soften hardscape, and reinforce the City's image.

CR-2.4 Public Spaces. Assess the feasibility of creating distinctive public space and walking routes in each district and Citywide, with a central gathering place and an interpretive map of the history of El Monte.





Policy ENF 1: Partner with the El Monte Police Department to develop traffic safety campaigns.

The City of El Monte should work with the Police Department and Mayor's Office to distribute educational materials to violators, with specific information targeted at motorists, bicyclists, and pedestrians. Extra enforcement along the high-injury corridors and areas focused on bicycle and pedestrian related violations. In addition, public service announcements can be posted through the City's and Police Departments websites and social media platforms. The Department of Public Works in collaboration with the Mayor's office, Police Department, and local advocacy organizations can develop press releases and hold press conferences highlighting safety initiatives, using the Citys' media outlets to spread the message.

General Plan Policies:

PSF-1.5 Traffic Safety. Continue, evaluate, and improve the City's traffic safety program, focusing on traffic law enforcement, accident prevention, and safety for motorists, bicyclists, and pedestrians.

PSF-1.6 Neighborhood Programs. Continue to support, promote, and improve the City's neighborhood improvement, citizen volunteer, and crime-prevention programs.

HW-4.2 Safer Streets. Reduce the potential for car collisions through design improvements, enforcement, and education efforts. Implement the recommendations from the pedestrian safety study. Maintain data on and prioritize improvements for locations with high incidences of pedestrian/vehicle collisions.



Policy ENG 1: Introduce traffic calming measures proactively where high-severity crashes are likely to occur most frequently.

Traffic calming should be deployed on the corridors and intersections of concern based on data analysis of roadway characteristics and land use. In general, multi-lane roadways along commercial land use is where high-severity crashes tend to occur. Generally, traffic calming can be as simple as restriping existing travel lanes to narrower travel lanes in order to reduce speeding, adding digital speed readout signs, and reallocating roadway space to non-motorized road users. Cities across Southern California have successfully obtained funds from the Highway Safety Improvement Program (HSIP) and the Active Transportation Program for Vision Zero improvements.

General Plan Policies:

C-3.1 Operational Efficiency. Maximize the operational efficiency of the arterial roadway system with the implementation of traffic management and traffic signal operations measures without adversely impacting transit, bicycles, and pedestrians.

PHS-4.5 Traffic Safety. Improve traffic safety on City streets through the use of advanced technology, signal timing, remote sensoring at critical intersections, and more frequent sweeps for drivers operating vehicles while under the influence of substances.

PHS-4.6 Traffic Safety Committee. Enhance the role and membership of the Traffic Safety Committee to include public, private, and neighborhood groups to facilitate innovative and proven solutions to reduce the incidence of accidents for all transportation modes.

HW-4.2 Safer Streets. Reduce the potential for car collisions through design improvements, enforcement, and education efforts. Implement the recommendations from the pedestrian safety study. Maintain data on and prioritize improvements for locations with high incidences of pedestrian/vehicle collisions.

HW-4.3 Traffic Calming. Implement a traffic-calming program to reduce traffic speeds and encourage safe driving practices in neighborhoods and high-volume pedestrian areas throughout the City.

HW-6.1 Bicycle Network. Increase the number of multi-use trails and create a network of striped bicycle lanes, signed bicycle routes, bicycle priority streets, and secure bicycle parking throughout the City.

HW-7.3 Traffic Calming. Implement traffic calming strategies in areas immediately around schools and parks.

Policy ENG 2: Continue to implement Complete Street Policies

To ensure the safety of all road users, El Monte has adopted a Complete Streets policy in 2014 to provide safe, convenient, and comfortable routes for walking, bicycling, and public transportation that encourage increased use of these modes of transportation to meet the needs of all roadway users including bicyclists, children, persons with disabilities, pedestrians, users of public transportation, and seniors, while continuing to maintain a safe and effective transportation system for motorists and movers of commercial goods. Continue to reference the National Association of City Transportation Officials' (NACTO) resources outlining multimodal street designs. Caltrans also has several multimodal guidelines including a "Complete Streets Elements Toolbox" that could also be officially adopted by the City of El Monte.

Complete Street Policies include:

- 1. Adopt new Complete Streets Design Guidelines (such as NACTO's Urban Street Design Guide) to guide the planning, funding, design, construction, operation, and maintenance of new and modified streets in El Monte while remaining flexible to the unique circumstances of different streets where sound engineering and planning judgment will produce context sensitive designs.
- 2. Incorporate the Complete Streets Design Guidelines' principles into all City plans, manuals, rules, regulations, and programs as appropriate.

- 3. Provide well-designed pedestrian accommodations on all streets and crossings. Pedestrian accommodations can take numerous forms, including but not limited to traffic signals, roundabouts, bulb-outs, curb extensions, sidewalks, buffer zones, shared-use pathways, and perpendicular curb ramps, among others.
- 4. Provide well-designed bicycle accommodations along all streets. Bicycle accommodations can take numerous forms, including but not limited to the use of bicycle boulevards, striping, slow streets, low auto volume streets, traffic calming, signs, and pavement markings, among others.
- 5. Where physical activity conditions warrant, landscaping shall be planted wherever a street is newly constructed, reconstructed, or relocated.

Policy ENG 3: Prioritize funding for Vision Zero projects in the Capital Improvement Plan.

Projects that improve vulnerable road user safety at corridors and intersections where data show the highest number of crashes are likely to occur based on roadway characteristics and land use. CIP projects that do not include safety components for vulnerable road users should be reexamined. The City may pursue adopting a policy to prioritize funding for projects that advance Vision Zero goals.

General Plan Policies:

C-2.7 Maintain Infrastructure. Develop and maintain adequate funding sources and maintenance programs for the ongoing maintenance and upkeep of City transportation.

ED-1. 5 Funding. Explore, develop, and use alternative funding sources to pay for and provide incentives for economic development activities for which the City lacks sufficient resources.

PSF-1.8 Funding. Seek to raise additional funds for police services outside of general fund revenues through special assessments, fees, taxes, and other means to allow for permanent revenue sources.

HW-7.1 Transportation Investments. Prioritize transportation investments to increase safety around parks, open spaces, schools, preschools, and childcare centers.



Policy ENG 4: Develop a Speed Management Plan to reduce vehicle speeds on the high-injury network

El Monte should explore developing a Speed Management Plan which will provide guidance on reducing speeds along the high-injury network and other problematic city roads. The primary reason for regulating speed is the significant risks drivers can impose on others, especially vulnerable road users. For example, a driver may decide to drive faster, accepting a higher probability of a collision, injury, or even death in exchange for a shorter trip time. This driver's decision may not adequately take into consideration the risk this choice imposes on other road users. The desire to protect public safety for all road users are reasons for Assembly Bill 43.

General Plan Policies:

C-2.6 Roadway Sizing. Provide appropriate roadway sizing in the City. Where roads are wider than traffic requires, consider converting surplus space to landscaped medians, bicycle lanes, and wider sidewalks, to make the road more pedestrian and bicycle friendly.

C-3.1 Operational Efficiency. Maximize the operational efficiency of the arterial roadway system with the implementation of traffic management and traffic signal operations measures without adversely impacting transit, bicycles, and pedestrians.

HW-4.3 Traffic Calming. Implement a traffic-calming program to reduce traffic speeds and encourage safe driving practices in neighborhoods and high-volume pedestrian areas throughout the City.



Policy EQU 1: Participate in policy reform efforts to support pedestrian and bicyclists' safety and state levels.

Statewide discussions over setting speed limits, equitable automated speed enforcement, improved driver education, and bicycle rules of the road can help the City of El Monte achieve its Vision Zero goals. The City should take advantage of the new state law allowing local control for setting speed limits without determining the 85th percentile speed first.

General Plan Policies:

C-3.3 Neighborhood Traffic. Work with community representatives, neighborhood groups, businesses, and residents to develop creative strategies to address traffic, congestion, and transportation issues unique to neighborhoods or districts.

C-6.2 New and Substantially Rehabilitated Development. Require new development to provide amenities for transit, bicyclists, and pedestrians and to provide connections to the bicycle and pedestrian networks where appropriate.

HW-14.1 Greater Participation. Invite and encourage individuals, youth, businesses and organizations in El Monte to participate in the decision-making process.

HW-14.2 Regular Updates. Regularly update the community about the progress of the General Plan implementation and health-related activities.

HW-14.4 Social Cohesion. Encourage activities such as block parties and community-wide social events, that strengthen neighborhood social cohesion and the overall identity of the City.





Policy EVA 1: Develop a program to track, monitor and evaluate infrastructure and program improvements.

Developing a program to track implemented projects and programs will be dependent on the data that can be collected as part of the project or program. Implementation monitoring guidance can include performance measures, such as but not limited to:

- » Miles and types of safety improvements built each fiscal year;
- » Number of annual crashes by type on City roads per fiscal year;
- » Reduction of collisions along the high-injury network
- » Number of sidewalk and crosswalk enhancements implemented;
- » Number of events (including education and encouragement) held and attendance at each event; and
- » Number of state and regional active transportation grants pursued, and dollar amount of grants successfully won.

When designing and implementing infrastructure projects, before and after bicycle and pedestrian counts and collisions can be collected to provide baseline information. These datasets are often readily available or can be integrated into the project budget at a minimal cost. Collecting, monitoring, and evaluating this data can be fruitful to show the City's progress in meeting Vision Zero goals. Count, or volume, data provide the foundation for measuring nonmotorized travel and monitoring trends of a facility or network.

Counts can be collected manually or through automated counters. Inductive bike loops can feed information to count stations. Permanent automated counters are essential to understand changes over time as well as for calibrating manual counts. Short duration manual counts can give more granular information than automated counters, supplementing that data, as well as showing variations in walking and bicycling across the city. When used together, short duration and permanent continuous counts describe how travel varies over time and space throughout a network. The City can use this data to set

performance measures, encourage alternative modes, manage transportation operations efficiently and effectively, evaluate the long-term trends of people walking and bicycling and be more competitive for grant funding. The Federal Highway Administration's Traffic Monitoring Guide¹ includes a review of existing techniques and guidance for implementing traffic monitoring programs.

General Plan Policies:

ED-1.7 Performance Measurement. Establish objective measures of economic development, identify performance benchmarks and targets, constantly measure performance, and adjust programs where needed to improve performance.

HW-4.12 Measurement. Regularly understand the number of people walking, bicycling, and taking public transportation by using a standardized monitoring tool and distribute the findings to the community.

Policy EVA 2: Acquire data to determine most unsafe behaviors contributing to crashes

El Monte should annually collect and analyze the most common causes for collisions, and after implementing appropriate traffic calming measures, engage the local police department to implement education and enforcement to encourage safe driving. Continue to pursue funding from California's Office of Traffic Safety (OTS) to support education and enforcement initiatives. The Police Department should continue screening with checkpoints to detect individuals driving while under the influence (DUI) as an effective way to reduce fatalities.

General Plan Policies:

HW-4.2 Safer Streets. Reduce the potential for car collisions through design improvements, enforcement, and education efforts. Implement the recommendations from the pedestrian safety study. Maintain data on and prioritize improvements for locations with high incidences of pedestrian/vehicle collisions.

TABLE 5-1: Goals and Policy Matrix

	EDUC	ATION	ENCOUR	AGEMENT	ENFORCE- MENT	ENGIN	EERING	EQUITY	EVALUATION
RECOMMENDED POLICIES	EDU 1. ENHANCE SAFETY EDUCATION PROGRAMS FOR ALL AGES AND ABILITIES	EDU 2. EMPLOY QUICK-BUILD BICYCLE AND SAFETY PROJECTS	ENC 1. PROVIDE FOR SAFE AND COMFORTABLE SAFE ROUTES TO SCHOOLS, PARKS AND TRANSIT	ENC 2. DE- SIGN AND PROMOTE HUMAN-CEN- TERED STREETS	ENF 1. PART- NER WITH THE EL MON- TE POLICE DEPARTMENT TO FOCUS- ING ON TRAF- FIC SAFETY ENFORCE- MENT AND EDUCATION- AL SAFETY CAMPAIGNS	ENG 1. IMPROVE INFRASTRUC- TURE TO INCREASE ROADWAY SAFETY FOR ALL USERS	ENG 2. LOW- ER VEHICLE SPEEDS	EQU 1. PRIOR- ITIZE ROAD SAFETY IN- VESTMENTS THROUGH AN EQUITABLE LENS	EVA 1. ANNUALLY MONITOR AND EVAL- UATE THE SUCCESS OF INVEST- MENTS IN FOR VULNER- ABLE ROAD- WAY USERS
EDU 1: Assess the potential for Safe Routes programs to Schools, to Transit and for Seniors	x		x	x	x	x	x	x	x
EDU 2: Integrate quick-build strategies to expedite traffic calming and roadway safety improvements.	х	x	х	x		х	х	x	х
ENC 1: Collaborate with local partners to develop safe routes to school, parks and transit programs.	х		х		x	х	х	x	х
ENC 2: Integrate human- centered placemaking amenities in future roadway designs.		x	х	X		х	х	x	
ENF 1: Partner with the El Monte Police Department to develop traffic safety campaigns.	х		х	x	x			x	
ENG 1: Introduce traffic calming measures proactively where high-severity crashes are likely to occur most frequently.			X	x	x	x	x	x	X
ENG 2: Continue to implement Complete Street Policies		x	X	x	×	X	X	×	
ENG 3: Prioritize funding for Vision Zero projects in the Capital Improvement Plan.	х	x	х	x	x	х	х	x	х

	EDUC	ATION	ENCOUR	AGEMENT	ENFORCE- MENT	ENGINI	EERING	EQUITY	EVALUATION
RECOMMENDED POLICIES	EDU 1. ENHANCE SAFETY EDUCATION PROGRAMS FOR ALL AGES AND ABILITIES	EDU 2. EMPLOY QUICK-BUILD BICYCLE AND SAFETY PROJECTS	ENC 1. PROVIDE FOR SAFE AND COMFORTABLE SAFE ROUTES TO SCHOOLS, PARKS AND TRANSIT	ENC 2. DE- SIGN AND PROMOTE HUMAN-CEN- TERED STREETS	ENF 1. PART- NER WITH THE EL MON- TE POLICE DEPARTMENT TO FOCUS- ING ON TRAF- FIC SAFETY ENFORCE- MENT AND EDUCATION- AL SAFETY CAMPAIGNS	ENG 1. IMPROVE INFRASTRUC- TURE TO INCREASE ROADWAY SAFETY FOR ALL USERS	ENG 2. LOW- ER VEHICLE SPEEDS	EQU 1. PRIOR- ITIZE ROAD SAFETY IN- VESTMENTS THROUGH AN EQUITABLE LENS	EVA 1. ANNUALLY MONITOR AND EVAL- UATE THE SUCCESS OF INVEST- MENTS IN FOR VULNER- ABLE ROAD- WAY USERS
ENG 4: Develop a Speed Management Plan to reduce vehicle speeds on the high- injury network			х	x	x	х	x	x	x
EQU 1: Participate in policy reform efforts to support safety for people walking and biking at the state levels.	х		х	x	x	х	х	x	
EVA 1: Develop a program to track, monitor and evaluate infrastructure and program improvements.	х	х			х	х	x	х	x
EVA 2: Acquire data to determine most dangerous behaviors contributing to crashes.	Х	х			X	х	х	x	x

Endnote

¹Federal Highway Administration's Traffic Monitoring Guide. https://www.fhwa.dot.gov/policyinformation/tmguide/





6.1 Recommendations and Implementation Overview

This chapter focuses on the key outcomes of the report: the recommendations and initial project implementation to support Vision Zero in El Monte. Section 6.2 of this chapter delves into the systemic recommendations that are network-wide across El Monte. A key concept of Vision Zero is that countermeasures shouldn't just be implemented at key locations where collisions have already occurred. Rather, they should be proactively implemented at locations where collisions are likely going to occur, especially high-severity collisions. Section 6.3 includes the specific corridor designs and corresponding cut sheets that show initial project recommendations and what measures should be implemented at each location. The callouts on the aerial photos are intended to be used to pursue grant funding for implementation. Section 6.4 delves further into funding opportunities for Vision Zero. Finally, section 6.5 includes metrics to be used to measure progress of implementation of Vision Zero in El Monte.

6.2 Prioritized Systemic Infrastructure Recommendations

Treatments and recommendations to implement Vision Zero in El Monte involves a joint effort of Engineering, Education, Evaluation, Enforcement, Equity, and Evaluation countermeasures. The implementation of proven safety countermeasures is strongly encouraged to accelerate the achievement of local, state, and national safety goals. These countermeasures may also benefit the City as some may be considered innovative for the region and garner additional points for grant applications.

The implementation plan in this section represents the recommended focus to reduce serious and fatal collisions in the near term and work toward a goal of zero fatalities and serious injuries by 2027. One precept in implementing Vision Zero is to apply measures across the network, in a systemic fashion. A systemic approach to traffic safety involves widely implemented improvements based on high-risk roadway features and characteristics correlated with specific severe collision types. The approach helps cities and agencies broaden their traffic safety efforts at little extra cost. This section describes the systemic engineering recommendations for this Vision Zero plan.

Engineering improvements such as marked crosswalks, separated bicycle lanes, or innovative signalization practices will improve safety for all road users. Data-driven, evidence-based engineering projects will improve the safety of the built environment to create livable streets for all road users, especially the City's most vulnerable. Data-driven pedestrian safety enhancements may include leading pedestrian intervals, protected turn phases, elimination of dual turn lanes, signal improvements, and no right turns on red, as shown in the cut-sheets for the High-Injury Corridors in El Monte.

The systemic engineering recommendations for this Vision Zero plan are shown in Table 6-1.

TABLE 6-1: Potential Countermeasures to Improve Safety and Concept Costs

COUNTERMEASURE	DESCRIPTION	UNIT COST UM	INTERSECTION	MID-BLOCK OR INFLUENCE
Concrete or Pavement Construction (low cost option	s use pavement markings)			
Gateway Treatments	Street Spanning Structure	\$115,000 EA	X	X
Gateway Treatments	Large Sign	\$35,000 EA	X	X
Modern Roundabout	Concrete curbs, truck aprons, landscape	\$500,000 EA	Х	
Traffic Calming Circle	Pavement markings and 'buttons'	\$33,000 EA	X	
Hardened Centerlines	Raised rubber centerline	\$2,500 EA	X	
Curb Ramp	Concrete curbs, sidewalk, yellow ramp	\$7,000 EA		
Corner Radius Reduction or Truck Apron	Concrete curbs and sidewalk	\$15,000 EA	X	
Concrete Sidewalk	Concrete curb and sidewalk	\$410 LF		X
Raised Crosswalk or Speed Table	Speed table	\$30,000 EA	X	X
Pedestrian Refuge Island (FHWA or Portland style)	Concrete curbs and landscaping	\$37,000 EA		X
Crossing Island	Concrete curbs and sign(s)	\$20,000 EA	X	X
Bulb Out / Curb Extensions	Concrete curbs and landscaping	\$37,000 EA	X	X
Bulb Out / Turn Wedge	Pavement markings with 'buttons'	\$2,500 EA	X	
Chicanes / Roadway Curvature	Concrete curbs and landscaping	\$22,000 EA		X
Chicanes / Roadway Curvature	Pavement markings and 'buttons'	\$2,500 EA		X
Pavement Markings				
High Visibility Crosswalks	Continental spaced to avoid vehicle wheels	\$5,500 EA	X	X
Bicycle lanes	One stripe both sides of road	\$10 LF		X
Bicycle vs Vehicle Conflict Markings	Green w/ white edges, 50 FT length	\$6,000 EA		X
Buffered Bicycle lanes (cycle tracks)	2 FT buffer, crosshatch (both side of road)	\$25 LF		X
Road Diets and Lane Width Reductions	6 lane stripes for 5 lanes	\$30 LF		X
Advisory Bicycle Lanes	Bicycle lane stripes both sides of road	\$10 LF		X
Bicycle Priority Lanes	Bicycle lane stripes both sides of road	\$20 LF		X
Left Turn Lane	Pavement marking for added vehicle lane	\$2,500 EA	X	
Parking Restricted at Crossings / Daylighting	Pavement marking and 'buttons'	\$2,500 EA		<u> </u>
Signs or Signal Infrastructure				
Pedestrian Countdown Signal Heads	Added to existing signal structure	\$2,000 EA	Х	
Pedestrian Detector (w/ regular maintenance)	Added to existing signal structure	\$1,500 INT	Х	
Pedestrian Signal - Upgrades	Added to existing signal structure	\$1,200 EA	ļ	X
Pedestrian Signal - New	Mast, power, concrete median, crosswalk	\$198,000 EA	ļ	X
Flashing Yellow Arrows, if signal timing not changed	Signal head replacement, signal timing mods.	\$7,900 INT	X	
Add NoRTOR sign / display	Sign attached to existing signal structure	\$500 EA	X	
Electronic Feedback Signs	Speed reader board on trailer	\$16,000 EA		X
Electronic Feedback Signs	Speed reader board on post (solar)	\$8,000 EA		X
Rectangular Rapid Flashing Beacons (RRFB)	Single post with signs and lights (solar)	\$25,000 EA		X
Pedestrian Hybrid Beacons (PHB)	Mast, power, concrete median, crosswalk	\$198,000 EA	.,	X
Reflective border on signal heads	8 signal heads	\$2,400 INT	X	.,
Street Lighting	Fixture and power lines as needed	\$8,000 EA	Х	X
Target Speeds and School Speed Zones	Speed limit signs.	\$800 EA		X
Signal Timing Adjustments		01 E 0 0 1 11 -		T
Left Turn Lane, Protected Left Turn Phase mods.	Signal timing modification	\$1,500 INT	X	
Signal Changes at Intersections	Adjust signal timing in Traffic Control Cabinet	\$1,500 INT	X	
Leading Pedestrian Intervals	Adjust signal timing in Traffic Control Cabinet	\$1,000 INT	X	
Change Signal Timing to Protected Phases	Adjust signal timing in Traffic Control Cabinet	\$1,500 INT	X	
Coordinate signals to manage speeds, calm traffic	Adjust signal timing in Traffic Control Cabinet	\$10,000 INT	X	
Reduce cycle, queue, and pedestrian delay	Adjust signal timing in Traffic Control Cabinet	\$1,500 INT	X	J

Notes: Unit Costs are escalated from original cost year to potential construction year of 2022, INT=Intersection, LF=Linear Feet, EA=Each, FT=Feet Cost data sources: https://www.pedbikeinfo.org/cms/downloads/Countermeasure%20Costs_Report_Nov2013.pdf http://katana.hsrc.unc.edu/cms/downloads/Costs-for-Pedestrian-Bicycle-Infrastructure-Improvements.xlsx

Table 6-1 is a summary of countermeasures that are proven in reducing roadway fatalities and serious injuries. El Monte is an excellent candidate for grants, both due to its demographics and its geographic layout.

El Monte's geographic layout has shown it to have an excellent transportation grid network. It is a good city that could be a great city with a few improvements. One of the most important improvements to make in the City of El Monte is two-way stop-controlled intersections on major roadways, which are nearly ubiquitous on multi-lane roadways throughout El Monte. There are relatively few signalized crossings between major intersections in the City. That is, there are relatively few pedestrian-specific beacons and signals such as the Rectangular Rapid Flashing Beacon, the Pedestrian Hybrid Beacon, and traditional pedestrian signals. Moreover, two-way stop-controlled intersections on major roadways pose a special challenge for motorists trying to navigate 32 conflict points and judge gaps with high-speed on-coming traffic from multiple directions. One solution is to implement what is known as a Restricted Crossing Intersection (RCI).

A RCI is a non-traditional intersection that can reduce the number of points of conflicts, ease traffic movements, and enhance traffic safety. In an RCI, side-street (minor cross street) traffic is prohibited from turning left or traveling straight through the mainline intersection. Instead, motorists on the minor street are only allowed to turn right.

There is a nuanced difference between the RCI and the Restricted Crossing U-Turn (RCUT.) The RCI is more common in urban areas, such as El Monte, and U-Turns are not required for the subsequent intersection, given that often U-turns can be made at the first signalized intersection and triple right turns can be made with the same effect. There are various options to keep connectivity and accessibility to all destinations. The RCUT, by contrast, tend to be in rural areas. To navigate the RCUT, motorists will turn right onto the main road from the minor road and do a legal U-turn at a nearby crossover.

RCIs have many benefits. In addition to allowing for a more efficient movement of traffic, RCIs reduce the total number of conflict points, thereby limiting collision opportunities and, typically, the severity of such collisions. The safety benefit of the RCI is that the number of conflict

points at the intersection is reduced from 32 to 16. RCIs are cost-effective measures that reduce the number of turning and angle collisions, simplify driver decisions, and reduce the number of auto-auto conflict points, plus reduce the auto-vulnerable road user conflict points.

RCIs have significant safety benefits for people walking and bicycling. One of the most unsafe conflicts for people walking and bicycling is when motorists have to turn left and be vigilant about other motorists from both the left and the right, as opposed to just one side. A common collision that occurs is the motorist's attention is in the opposite direction of the person walking or bicycling and a crash occurs as the motorist travels left or through. The RCI eliminates left movements and through movements for motorists on the minor road, thereby dramatically increasing safety for non-motorized road users.

There are many places in El Monte where implementing an RCI is appropriate, but the first place this Plan recommends is to place one at the intersection of Lower Azusa Road at La Madera Avenue, as shown in Figure 6-1. An example of a constructed RCI is shown in Figure 6-2. Based on research of the region, there appear to be no RCIs in El Monte or nearby cities. There is, however, at the intersection of Asher St and Peck Rd in El Monte a median island that restricts both through movement of the minor road and left turns from the major road, as seen in Figure 6-3.

FIGURE 6-1: Sample Modification to La Madera Ave and Lower Azusa Rd Intersection

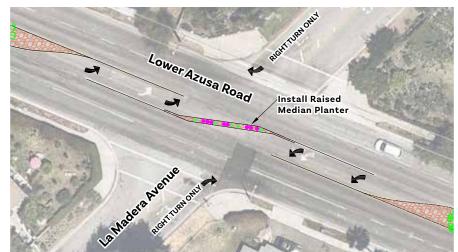


FIGURE 6-2: Superstreet example in San Diego at El Cajon Blvd/ Idaho St



FIGURE 6-3: Example of Median Island Restricting Movements at Asher St and Peck Rd in El Monte



Pedestrian Friendly Signal Timing Options

- 1. Coordinate signals to manage speeds and calm traffic.
- 2. Add 5-7 second Leading Pedestrian Interval (LPI).
- 3. Add countdown signals to all traffic signals, starting with high priority walking locations.
- 4. Increase the Pedestrian Clearance Interval aka "Flashing Don't Walk" (FDW) at signals with high numbers of disabled, older adults, or children.
- 5. Consider Right-Turn-On-Red (RTOR) restrictions at signalized intersections when warranted by pedestrian volumes.
- 6. Consider shorter cycle lengths to reduce pedestrian delay and shorten queue lengths.
- 7. Consider implementing pedestrian recall at high pedestrian volume crossings.
- 8. Any left turn phasing should be protected phasing.
- 9. Consider Flashing Yellow Arrow (FYA) if the street has only one lane in each direction.
- 10. Add yellow backplates to traffic signal head.

6.2.1 Signalization Principles

Traffic signalization encompasses two concepts: timing and phasing. Timing is the amount of time spent on a given traffic movement, and the "speed" at which subsequent signals along a corridor allow through movements (i.e turn green). For instance, 30 seconds can be given for through-traffic and 15 seconds can be given for a left-turn movement, with each timed to be encountered by a auto traveling 30 mph from the previous intersection. Signal timing is based primarily on the observed volumes of queued traffic, and in a auto-only transportation environment, efficient signal timing aims to clear the queue for all movements per phase. Signal phasing refers to the pairing of turning movements, such as through-movements and protected leftturns being paired. A "cycle" of phasing is completed when all turning movements have been completed.

Together, signal timing and phasing reflect the priorities of a transportation network. In a multimodal transportation environment, signals for vehicles at intersections need to be balanced with pedestrians, bicyclists, and transit vehicles. Here are ways to balance the needs of multiple modes at intersections through signal timing and phasing.

Shorten Signal Cycles

Signal cycles of 60 to 90 seconds are ideal for urban areas with frequent intersections and multimodal traffic and. Short signal cycles reduce overall pedestrian wait times and side street delay. Cycle lengths control the speed of traffic along a corridor, and can reduce speeds as part of a coordinated signal timing plan.

Minimize Number of Signal Phases

While increasing the number signal phases can increase safety, such as in the case of protected left turns, independent signal phases also lengthen the signal cycle. The number of signal phases should be appropriate to the volume of turning movements while addressing unsafe road or driving conditions with protected left turns or no right turns on red lights.

Time Signals at the Speed Intended for Traffic

Synchronize green lights along a corridor at or below the target speed to maintain safe travel speeds and discourage speeding.

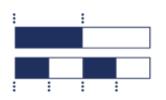
Prioritize Pedestrians, Bicyclists, and Transit

Leading pedestrian intervals increase pedestrian safety by making pedestrians more visible to vehicles. Pedestrians are given several seconds head-start to cross, putting them further into the line-of-sight for autos turning left onto the pedestrian's cross street. Pedestrians can also be given a "pedestrian scramble" if the signals hold auto traffic in all directions and pedestrians are given crosswalks perpendicular and diagonal across the intersection. Synchronizing signals for bicycles combines timing and phasing along a corridor so that bicyclists traveling at a certain speed will experience green lights. Transit signal priority can operate in the same way, and can also include wireless communications from transit vehicles to signals for instances where vehicles are not on schedule. The Los Angeles Metro's Bus Rapid Transit (BRT) utilizes traffic-signal priority (TSP) which helps provide fast, reliable, and convenient bus service throughout Los Angeles County.

Use Fixed Signal Timing Rather than Actuated Signals

Actuated signals detect vehicles and prioritize turning movements for autos. This can decrease opportunities for pedestrians. Fixed signal timing is preferred in urban areas to ensure consistent opportunities for pedestrians to cross, decreasing walking times. Pedestrian signal activation also can be used in conjunction with actuated signals to ensure some consistency in crossing opportunities, though fixed timing is preferred.

Signalization Principles



Shorten Signal Cycles to Increase Turnover



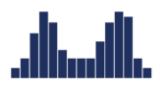
Prioritize Walking, Bicycling, and Transit



Keep the Number of Signal Phases to a Minimum



Time Signals to the Speed you Intend Traffic to Go



Adjust Timing for Peak and Off-Peak Volumes



Use FixedTime Signals as Opposed to Actuated Signals

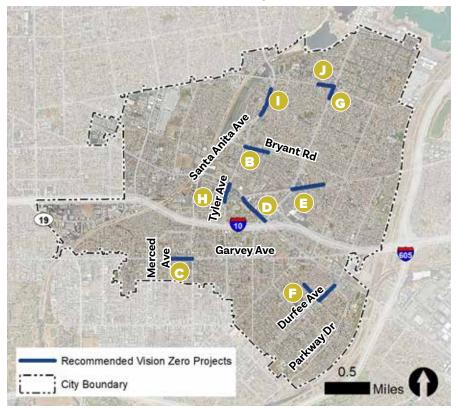
6.3 Concept Designs (Cutsheets)

Ten conceptual designs were developed for the highest-ranking segments of corridors identified by the high-injury network and the TAC as shown in Figure 6-3. The cutsheets for these ten locations are key to the implementation of safety improvements; they identify low-cost "tactical urbanism" improvements that can be implemented citywide, as well as more permanent and higher-cost solutions. Construction of some of these improvements, like bicycle facilities, can be integrated into planned construction such as resurfacing or utility work. Higher-cost projects could be required to be part of the capital

improvement process to identify funding, undergo public and environmental review, and plan preparation. Planning-level cost estimates are provided for low-cost projects and permanent installations.

The recommendations were developed based on field observations and refined with input from City staff and El Monte residents. Though these recommendations are conceptual in nature - identifying "what" goes "where" - final design of these projects should still achieve the same goals of the original recommendations.

FIGURE 6-4: Recommended Vision Zero Project Locations



The Top 10 Recommended Projects include:

- Durfee Avenue between Magnolia Street and Denholm Drive
- Bryant Road between Tyler Avenue and Cypress Avenue
- Garvey Avenue between Central Avenue and Santa Anita Avenue
- Valley Boulevard between Ramona Boulevard and North Peck Road
- Ramona Boulevard between Ferris Road and La Madera Avenue
- Magnolia Street between Allgeyer Avenue and Durfee Avenue
- G Peck Road between Ranchito Street and Lower Azusa Road
- 📙 Tyler Avenue between Ramona Boulevard and Valley Boulevard
- Santa Anita Avenue between Ranchito Street and McGirk Avenue
- Lower Azusa Road between Elrovia Avenue and Peck Road

№ 6.3.1 Durfee Avenue

Durfee Avenue between Magnolia Street and Denholm Drive is located in the southeast part of the City of El Monte. The primary land use is commercial, the high speeds and lack of signalized crossing make for an unfriendly environment for people walking and bicycling, as well a,s for people driving. Demand for students to cross the street to access Mountain View High School is needed, making the roadway the ideal candidate for Vision Zero improvements. Figure 6-5 provides concept level improvements with numbered callouts and corresponding sample pictures below the map. A concept level cost estimate is shown in Table 6-2.

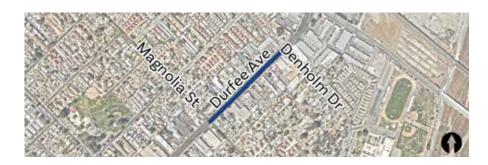


FIGURE 6-5: Durfee Avenue Project Sheet: Between Magnolia Street and Denholm Drive





Pedestrian Signal



Conflict Striping



High Visibility Crosswalks



Low Cost Bulb Outs



Crossing Island

 TABLE 6-2: Durfee Avenue Countermeasure Concept Costs

COUNTERMEASURE	DESCRIPTION	UNIT COST	UM	QUANTITY	LENGTH	WIDTH	COST
Concrete or Pavement Construction	(low cost options use pavement markings)						
Crossing Island	Concrete curbs and sign(s)	\$20,000	EA	1			\$20,000
Bulb Out / Turn Wedge	Pavement markings with 'buttons' and rubber turn wedges	\$2,500	EA	9			\$22,500
Pavement Markings							
High Visibility Crosswalks	Continental spaced to avoid vehicle wheels	\$5,500	EA	6			\$33,000
Bicycle vs Vehicle Conflict Markings	Green w/ white edges, 50 ft length	\$6,000	EA	8			\$48,000
Signs or Signal Infrastructure							
Pedestrian Signal - New	Mast, power, concrete median, crosswalk	\$198,000	EA	2			\$396,000
INT = Intersection, Qty = Quantity, L = Le	ngth, W = Width, EA = Each, SF = Square Feet, LF = L	inear Feet		•	•	Total	\$519,500



Pedestrian crossing mid-block on Durfee Avenue at Legore Elementary School



Existing bicycle lane on Durfee Avenue

🔁 6.3.2 Bryant Road

Bryant Road between Tyler Avenue and Cypress Avenue is located in the central part of the City of El Monte. Legore Elementary School is on the north side and a residential area on the south side. Although it is a relatively small street, it could use more traffic calming to increase connectivity and safety for all modes of transportation that travel along and across this roadway. Figure 6-6 provides concept level improvements with numbered callouts and corresponding sample pictures below the map. A concept level cost estimate is shown in Table 6-4.



FIGURE 6-6: Bryant Road Project Sheet: Between Tyler Avenue and Cypress Avenue





Low Cost-Bulb-Out



Advisory Bicycle Lane



Curb Extensions



Speed Feedback Signs



Speed Cushions

 TABLE 6-4:
 Bryant Road Countermeasure Concept Costs

COUNTERMEASURE	DESCRIPTION	UNIT COST	UM	QUANTITY	LENGTH	WIDTH	COST	
Concrete or Pavement Construction (low cost of	ptions use pavement markings)							
Speed Cushions	Asphalt paving	\$7,000	EA	4			\$28,000	
Bulb Out / Curb Extensions	Concrete curbs and landscaping	\$37,000	EA	6			\$222,000	
Bulb Out / Turn Wedge	Pavement markings with 'buttons' and rubber turn wedges	\$2,500	EA	8			\$20,000	
Pavement Markings								
Advisory Bicycle Lanes	Bicycle lane stripes both sides of road	\$10	LF	1	1,500		\$15,000	
Signs or Signal Infrastructure						^		
Electronic Feedback Signs	Speed reader board on post (solar)	\$8,000	EA	2			\$16,000	
INT = Intersection, Qty = Quantity, L = Length, W = Wie	T = Intersection, Qty = Quantity, L = Length, W = Width, EA = Each, SF = Square Feet, LF = Linear Feet							



Existing roadway conditions on Bryant Road



Existing high-visibility crosswalks near Legore Elementary School

6.3.3 Garvey Boulevard

Garvey Avenue between Central Avenue and Santa Anita Avenue is located in the southern part of the City of El Monte. It is a mix of commercial and residential, with several restaurants and other commercial establishments on the street. The high motor vehicle speeds and lack of bicycle facilities create obstacles for people walking and bicycling, challenges for people driving, and opportunities for Vision Zero treatments. Figure 6-7 provides concept level improvements with numbered callouts and corresponding sample pictures below the map. A concept level cost estimate is shown in Table 6-5.



FIGURE 6-7: Garvey Boulevard Project Sheet: Between Central Avenue and Santa Anita Avenue





Hardened Centerlines



Conflict Striping



Bicycle Priority Lane



Pedestrian Signal



Low-Cost Bulb-Outs



Hardened Centerline Speed Bumps



Leading Pedestrian Interval

 TABLE 6-5: Garvey Boulevard Countermeasure Concept Costs

COUNTERMEASURE	DESCRIPTION	UNIT COST	UM	QUANTITY	LENGTH	WIDTH	COST	
Concrete or Pavement Construct	ion (low cost options use pavement markings)							
Hardened Centerlines	Raised rubber centerline	\$2,500	EA	8			\$20,000	
Bulb Out / Turn Wedge	Pavement markings with 'buttons' and rubber turn wedges	\$2,500	EA	4			\$10,000	
Pavement Markings								
High Visibility Crosswalks	Continental spaced to avoid vehicle wheels	\$5,500	EA	8			\$44,000	
Bicycle vs Vehicle Conflict Markings	Green w/ white edges, 50 ft length	\$6,000	EA	9			\$54,000	
Bicycle Priority Lanes	Bicycle lane centered in lane, filled with thermoplastic	\$100	LF	1	1,200		\$120,000	
Signs or Signal Infrastructure								
Reflective border on signal heads	8 signal heads	\$2,400	INT	2			\$4,800	
Signal Timing Adjustments								
Signal Changes at Intersections	Adjust signal timing in Traffic Control Cabinet	\$1,500	INT	2			\$3,000	
INT = Intersection, Qty = Quantity, L =	NT = Intersection, Qty = Quantity, L = Length, W = Width, EA = Each, SF = Square Feet, LF = Linear Feet							







Current traffic volumes along Garvey Boulevard

6.3.4 Valley Boulevard

Valley Boulevard between Ramona Boulevard and North Peck Road is nestled between two cloverleaf intersections and is located in the central part of the City of El Monte. It is highly commercial and the El Monte Civic Center is located here. The proximity to I-10 leads to ease of access for motorists but to challenges to other roadway users and opportunities implementing Vision Zero measures. Figure 6-8 provides concept level improvements with numbered callouts and corresponding sample pictures below the map. A concept level cost estimate is shown in Table 6-6.



FIGURE 6-8: Valley Boulevard Project Sheet: Between Ramona Boulevard and North Peck Road





Hardened Centerlines



High Visibility Crosswalk



Bicycle Priority Lane



Pedestrian Signal



Conflict Striping



Yellow Backed Signal Heads



Speed Feedback



Low-Cost Bulb-Outs



Leading Pedestrian Interval

 TABLE 6-6:
 Valley Boulevard Countermeasure Concept Costs

COUNTERMEASURE	DESCRIPTION	UNIT COST	UM	QUANTITY	LENGTH	WIDTH	COST
Concrete or Pavement Construc	ction (low cost options use pavement markings)						
Hardened Centerlines	Raised rubber centerline	\$2,500	EA	2			\$5,000
Pavement Markings							
High Visibility Crosswalks	Continental spaced to avoid vehicle wheels	\$5,500	EA	5			\$27,500
Bicycle vs Vehicle Conflict Markings	Green w/ white edges, 50 ft length	\$6,000	EA	4			\$24,000
Bicycle Priority Lanes	Bicycle lane centered in lane, filled with thermoplastic	\$100	LF	1	1,600		160,000
Signs or Signal Infrastructure							
Pedestrian Signal - New	Mast, power, concrete median, crosswalk	\$198,000	EA	1			\$198,000
Electronic Feedback Signs	Speed reader board on post (solar)	\$8,000	EA	2			\$16,000
Signal Timing Adjustments							
Signal Changes at Intersections	Adjust signal timing in Traffic Control Cabinet	\$1,500	INT	4			\$6,000
INT = Intersection, Qty = Quantity, L	= Length, W = Width, EA = Each, SF = Square Feet, LF =	Linear Feet		•	•	Total	\$436,500



Mid-block crossing at Meeker Avenue



Crosswalks at Valley Boulevard and Ramona Boulevard

😑 6.3.5 Ramona Boulevard

Ramona Boulevard between Ferris Road and La Madera Avenue is located in the eastern part of the City of El Monte. It has a mix of residential and commercial uses, and connects with the busy urban center of El Monte. Lack of sidewalks on the north side and lack of bicycle facilities leads to an inhospitable environment for people walking and bicycling, as well as challenges for people driving. It is a perfect location to implement Vision Zero measures. Figure 6-9 provides concept level improvements with numbered callouts and corresponding sample pictures below the map. A concept level cost estimate is shown in Table 6-7.



FIGURE 6-9: Ramona Boulevard Project Sheet: Between Ferris Road and La Madera Avenue





Bicycle Priority Lanes



High Visibility Crosswalks



Curb Ramp



Yellow Backed Signal Heads



Speed Feedback Signs



Corner Radius Reduction with Truck Apron

 TABLE 6-7:
 Ramona Boulevard Countermeasure Concept Costs

COUNTERMEASURE	DESCRIPTION	UNIT COST	UM	QUANTITY	LENGTH	WIDTH	COST	
Concrete or Pavement Construction	low cost options use pavement markings)							
Curb Ramp	Concrete curbs, sidewalk, yellow ramp	\$7,000	EA	5			\$35,000	
Corner Radius Reduction or Truck Apron	Concrete curbs and sidewalk	\$15,000	EA	1			\$15,000	
Concrete Sidewalk	Concrete curb and sidewalk	\$410	LF		800		\$328,000	
Pavement Markings								
High Visibility Crosswalks	Continental spaced to avoid vehicle wheels	\$5,500	EA	3			\$16,500	
Bicycle Priority Lanes	Bicycle lane centered in lane, filled with thermoplastic	\$100	LF	1	1,600		\$160,000	
Signs or Signal Infrastructure								
Electronic Feedback Signs	Speed reader board on post (solar)	\$8,000	EA	2			\$16,000	
Signal Timing Adjustments								
Signal Changes at Intersections	Adjust signal timing in Traffic Control Cabinet	\$1,500	INT	1			\$1,500	
INT = Intersection, Qty = Quantity, L = Len	IT = Intersection, Qty = Quantity, L = Length, W = Width, EA = Each, SF = Square Feet, LF = Linear Feet							



Existing roadway conditions along Ramona Boulevard



Bicyclists riding on sidewalk



6.3.6 Magnolia Street

Magnolia Street between Allgeyer Avenue and Durfee Avenue is located in the southeastern part of the City of El Monte. It is mostly residential to the west, although it has commercial at the intersection with Durfee. It is located close to Payne School, leading to a desire line for students to move safely along and across Magnolia Street, making it an excellent candidate for Vision Zero improvements. Figure 6-10 provides concept level improvements with numbered callouts and corresponding sample pictures below the map. A concept level cost estimate is shown in Table 6-8.

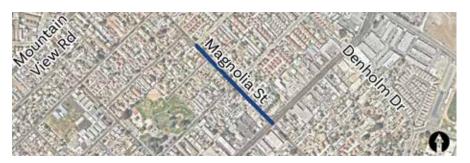


FIGURE 6-10: Magnolia Street Project Sheet: Between Allgeyer Avenue and Durfee Avenue





Low Cost-Bulb-Out



Advisory Bicycle Lane



High Visibility Crosswalks



Yellow Backed Signal Heads



Low Cost Traffic Calming Circle

 TABLE 6-8:
 Magnolia Street Countermeasure Concept Costs

COUNTERMEASURE	DESCRIPTION	UNIT COST	UM	QUANTITY	LENGTH	WIDTH	COST
Concrete or Pavement Construct	on (low cost options use pavement markings)						
Traffic Calming Circle	Pavement markings and 'buttons'	\$33,000	EA	1			\$33,000
Bulb Out / Turn Wedge	Pavement markings with 'buttons' and rubber turn wedges	\$2,500	EA	10			\$25,000
Pavement Markings				•			
High Visibility Crosswalks	Continental spaced to avoid vehicle wheels	\$5,500	EA	10			\$55,000
Advisory Bicycle Lanes	Bicycle lane stripes both sides of road	\$10	LF	1	1,600		\$16,000
Signal Timing Adjustments							
Signal Changes at Intersections	Adjust signal timing in Traffic Control Cabinet	\$1,500	INT	1			\$1,500
NT = Intersection, Qty = Quantity, L = Length, W = Width, EA = Each, SF = Square Feet, LF = Linear Feet							



Existing roadway conditions along Magnolia Street



Crosswalks at Magnolia Street and Durfee Avenue

🕝 6.3.7 Peck Road

Peck Road between Ranchito Street and Lower Azusa Road is located in the northern part of the City of El Monte. It is mostly commercial and located near a large signalized intersection. With numerous curb cuts leading to plenty of conflict points, this corridor is a good candidate for Vision Zero improvements. Figure 6-11 provides concept level improvements with numbered callouts and corresponding sample pictures below the map. A concept level cost estimate is shown in Table 6-9.



FIGURE 6-11: Peck Road Project Sheet: Between Ranchito Street and Lower Azusa Road





Corner Radius Reduction with Truck Apron



Yellow Backed Signal Heads



Pedestrian Scale Lighting



NoRTOR Sign



Speed Feedback Signs



Bicycle Priority Lanes

 TABLE 6-9: Peck Road Countermeasure Concept Costs

COUNTERMEASURE	DESCRIPTION	UNIT COST	UM	QUANTITY	LENGTH	WIDTH	cost	
Concrete or Pavement Construction	low cost options use pavement markings)							
Corner Radius Reduction or Truck Apron	Concrete curbs and sidewalk	\$15,000	EA	2			\$30,000	
Pavement Markings								
Bicycle Priority Lanes	Bicycle lane centered in lane, filled with thermoplastic	\$100	LF	1	800		\$80,000	
Signs or Signal Infrastructure								
Add NoRTOR sign / display	Sign attached to existing signal structure	\$500	EA	4			\$2,000	
Electronic Feedback Signs	Speed reader board on post (solar)	\$8,000	EA	1			\$8,000	
Reflective border on signal heads	8 signal heads	\$2,400	INT	2			\$4,800	
Street Lighting	Fixture and power lines as needed	\$8,000	EA	2			\$16,000	
INT = Intersection, Qty = Quantity, L = Leng	NT = Intersection, Qty = Quantity, L = Length, W = Width, EA = Each, SF = Square Feet, LF = Linear Feet							



Existing roadway conditions along Peck Road and Lower Azusa Road



Crosswalks at Peck Road and Ranchito Street

6.3.8 Tyler Avenue

Tyler Avenue is nestled between two large roadways: Ramona Boulevard and Valley Boulevard. The land use is commercial with big box stores on both sides of the street. With no center median and plenty of conflict points due to numerous curb cuts this is a great candidate for Vision Zero improvements. Figure 6-12 provides concept level improvements with numbered callouts and corresponding sample pictures below the map. A concept level cost estimate is shown in Table 6-10.



FIGURE 6-12: Tyler Avenue Project Sheet: Between Ramona Boulevard and Valley Boulevard





Corner Radius Reduction with Truck Apron



Yellow Backed Signal Heads



Pedestrian Scale Lighting



Speed Feedback Signs



NoRTOR Sign



High Visability Crosswalk



Bicycle Priority Lanes

 TABLE 6-10:
 Tyler Avenue Countermeasure Concept Costs

COUNTERMEASURE	DESCRIPTION	UNIT COST	UM	QUANTITY	LENGTH	WIDTH	COST	
Concrete or Pavement Construction (low cost options use pavement markings)							
Corner Radius Reduction or Truck Apron	Concrete curbs and sidewalk	\$15,000	EA	8			\$120,000	
Bulb Out / Turn Wedge	Pavement markings with 'buttons' and rubber turn wedges	\$2,500	EA	7			\$17,500	
Pavement Markings								
High Visibility Crosswalks	Continental spaced to avoid vehicle wheels	\$5,500	EA	6			\$33,000	
Bicycle Priority Lanes	Bicycle lane centered in lane, filled with thermoplastic	\$100	LF	1	1,200		\$120,000	
Signs or Signal Infrastructure								
Add NoRTOR sign / display	Sign attached to existing signal structure	\$500	EA	4			\$2,000	
Electronic Feedback Signs	Speed reader board on post (solar)	\$8,000	EA	2			\$16,000	
Street Lighting	Fixture and power lines as needed	\$8,000	EA	10			\$80,000	
Signal Timing Adjustments								
Signal Changes at Intersections	Adjust signal timing in Traffic Control Cabinet	\$1,500	INT	3			\$4,500	
INT = Intersection, Qty = Quantity, L = Length, W = Width, EA = Each, SF = Square Feet, LF = Linear Feet								



Existing roadway conditions along Tyler Avenue



Intersection of Tyler Avenue and Ramona Boulevard

🕕 6.3.9 Santa Anita Avenue

Santa Anita Avenue is a large corridor that is nestled between small streets, Ranchito Street and McGirk Avenue, which is located in the western part of the City of El Monte. It borders a mixed-use, mostly residential, partially commercial area that borders the San Gabriel Valley Airport. Given the high speeds, the lack of bicycle facilities, and the numerous conflict points, it is the ideal candidate for Vision Zero projects. Figure 6-13 provides concept level improvements with numbered callouts and corresponding sample pictures below the map. A concept level cost estimate is shown in Table 6-11.



FIGURE 6-13: Santa Anita Avenue Project Sheet: Between Ranchito Street and McGirk Avenue





Pedestrian Signal



Bicycle Priority Lanes



High Visability Crosswalk



Low-Cost Bulb-Outs



Crossing Island



Conflict Striping

 TABLE 6-11:
 Santa Anita Avenue Countermeasure Concept Costs

COUNTERMEASURE	DESCRIPTION	UNIT COST	UM	QUANTITY	LENGTH	WIDTH	COST				
Concrete or Pavement Construction (Concrete or Pavement Construction (low cost options use pavement markings)										
Pedestrian Refuge Island (FHWA or Portland style)	Concrete curbs and landscaping	\$37,000	EA	2			\$74,000				
Bulb Out / Turn Wedge	Pavement markings with 'buttons' and rubber turn wedges	\$2,500	EA	14			\$35,000				
Pavement Markings	Pavement Markings										
High Visibility Crosswalks	Continental spaced to avoid vehicle wheels	\$5,500	EA	10			\$55,000				
Bicycle vs Vehicle Conflict Markings	Green w/ white edges, 50 ft length	\$6,000	EA	7			\$42,000				
Bicycle Priority Lanes	Bicycle lane centered in lane, filled with thermoplastic	\$100	LF	1	1,600		\$160,000				
Signs or Signal Infrastructure				^	^	^					
Pedestrian Signal - New	Mast, power, concrete median, crosswalk	\$198,000	EA	1			\$198,000				
INT = Intersection, Qty = Quantity, L = Length, W = Width, EA = Each, SF = Square Feet, LF = Linear Feet											



Santa Anita Avenue at Emery Street



Installation of new traffic signal at McGirk Avenue



6.3.10 Lower Azusa Road

Lower Azusa Road between Elrovia Avenue and Peck Road is located in the northern part of the City of El Monte. It is mostly residential to the west and mostly commercial to the east. It is a large, imposing roadway with no bicycle facilities and high speeds, giving it both challenges and opportunities to add Vision Zero improvements to improve the corridor for all modes of transportation. Figure 6-14 provides concept level improvements with numbered callouts and corresponding sample pictures below the map. A concept level cost estimate is shown in Table 6-12.



FIGURE 6-14: Lower Azusa Road Project Sheet: Between Elrovia Avenue and Peck Road





Pedestrian Signal



Bicycle Priority Lanes



High Visability Crosswalk



Hardened Centerlines



Speed Feedback Sign



Yellow Backed Signal Heads

 TABLE 6-12:
 Lower Azusa Road Countermeasure Concept Costs

COUNTERMEASURE	DESCRIPTION	UNIT COST	UM	QUANTITY	LENGTH	WIDTH	cost			
Concrete or Pavement Constru	uction (low cost options use pavement markings)									
Hardened Centerlines	Raised rubber centerline	\$2,500	EA	1			\$2,500			
Pavement Markings	Pavement Markings									
High Visibility Crosswalks	Continental spaced to avoid vehicle wheels	\$5,500	EA	6			\$33,000			
Bicycle Priority Lanes	Bicycle lane centered in lane, filled with thermoplastic	\$100	LF	1	800		\$80,000			
Signs or Signal Infrastructure										
Pedestrian Signal - New	Mast, power, concrete median, crosswalk	\$198,000	EA	1			\$198,000			
Electronic Feedback Signs	Speed reader board on post (solar)	\$8,000	EA	1			\$8,000			
Signal Timing Adjustments										
Signal Changes at Intersections	Adjust signal timing in Traffic Control Cabinet	\$1,500	INT	1			\$1,500			
INT = Intersection, Qty = Quantity, L = Length, W = Width, EA = Each, SF = Square Feet, LF = Linear Feet										



Bicyclist riding on the sidewalk



Intersection of Lower Azusa Road and Peck Road



6.4 Funding Sources

Federal, state, and local government agencies invest billions of dollars every year in the nation's transportation system. Only a fraction of that funding is used to develop policies, plans, and projects to improve conditions for pedestrian, bicycle, traffic calming, and Vision Zero projects. Even though appropriate funds are available, they are limited and often hard to acquire. Desirable projects sometimes go unfunded because communities may be unaware of the existence of a funding source or may apply for the wrong type of grant. In addition, there is increasing competition between municipalities for the limited available funds.

Whenever federal funds are used for bicycle, pedestrian, traffic calming, and Vision Zero projects, a certain level of state and/or local matching funding is generally required. State funds are often available to local governments on similar terms. Almost every implemented active transportation or complete street project in the United States has had more than one funding source and it often takes a good deal of coordination to pull the various sources together.

According to the publication by the FHWA, an Analysis of Current Funding Mechanisms for Vision Zero Programs¹ at the Federal, State and Local Levels, "where successful local Vision Zero programs exist, there is usually an active transportation coordinator with an extensive understanding of funding sources." City staff are often in a position to develop a competitive project and detailed proposal that can be used to improve conditions for bicyclists and pedestrians within their jurisdictions. Some of the following information on federal, state, and local funding sources were derived from the previously mentioned FHWA publication.

The City of El Monte should continue to pursue state level grants through programs such as Caltrans' Active Transportation Planning (ATP) and Sustainable Transportation Planning grants, the Strategic Growth Council's Sustainable Community Planning Grants, Urban Greening Grants and through the Highway Safety Improvement Program (HSIP). Projects that are not awarded funding through the Caltrans ATP cycles are sent to SCAG, the local Metropolitan Planning Organization (MPO), for consideration for funding through their programs. It will be important to coordinate future planning efforts with adjacent jurisdictions on any projects that affect and benefit both cities. Coordination and joint efforts also strengthen an application due to combined benefits for multiple jurisdictions.

The following section identifies potential federal, state, and local funding opportunities that may be used from design to maintenance phases of projects. Due to trends in Low Impact Development (LID) and stormwater retention street designs, funding sources for these improvements not only increase the chances for multi-modal improvements but can also be incorporated into streetscape and development projects.

TABLE 6-13: Federal Funding Sources

FUNDING	FUNDING	DUDDOOF (DECORIDE)	FUNDING	ACTIVE	TRANSPORTAT	ION	PROJECT	COMPETITIVE/
SOURCE	ORIGIN	PURPOSE/DESCRIPTION	CYCLE	INFRASTRUCTURE	NON- INFRASTRUCTURE	PLANNING	EXAMPLES	FORMULA
Enhanced Mobility of Seniors and Individuals with Disabilities	FTA	The goal of this program is to improve mobility for seniors and individuals with disabilities by removing barriers to transportation service and expanding transportation mobility options.	Unavailable	X	×		 Mobility management programs Building an accessible path to a bus stop Improving signage, or way-finding technology 	Both
Safe Routes to Parks, Activating Communities Program	National Center for Safe Routes to School and Caltrans	The program framework provides a structured process to increase safe and equitable access to parks and green spaces. The framework includes four main areas of activity: 1) Assessment, 2) Planning, 3) Implementation, and 4) Sustainability, with each area heavily infused with proactive community engagement.	Unavailable	X		X	Safe Routes to Parks action plans Implementation activities such as acquiring rights-of-way, maintenance, and street design	Competitive
Pilot Program for Transit-Oriented Development Planning - Sec- tion 20005(b)	FTA	Provides funding to local communities to integrate land use and transportation planning with a transit capital investment that will seek funding through the Capital Investment Grant (CIG) Program.	Annual	X			• TOD projects and plans	Competitive
Safety Research and Demonstra- tion Program		The Safety Research and Demonstration (SRD) Program is part of a larger safety research effort at the U.S. Department of Transportation that provides technical and financial support for transit agencies to pursue innovative approaches to eliminate or mitigate safety hazards. The SRD program focuses on demonstration of technologies and safer designs.	Annual			X	Operational safety programs	Competitive
Access and Mo- bility Partner- ship Grants		This program provides competitive funding to support innovative capital projects for the transportation disadvantaged that will improve the coordination of transportation services and non-emergency medical transportation services.	Unavailable			X	Coordination of non- emergency medical transportation services program	Competitive

FUNDING	FUNDING		FUNDING	ACTIVE	TRANSPORTATI	ON	PROJECT	COMPETITIVE/
SOURCE	ORIGIN	PURPOSE/DESCRIPTION	CYCLE	INFRASTRUCTURE	NON- INFRASTRUCTURE	PLANNING	EXAMPLES	FORMULA
Better Utilizing Investments to Leverage Development (BUILD) Transportation Grants Program	FTA	US DOT's BUILD Transportation Discretionary Grants program funds investments in transportation infrastructure, including transit.	Annual	X			Construction projects	Competitive
Enhanced Mobility of Seniors & Individuals with Disabilities - Section 5310		Formula funding to states for the purpose of assisting private nonprofit groups in meeting transportation needs of the elderly and persons with disabilities.	Annual			X	Planning program to meet the special transportation needs of seniors and individuals with disabilities	Formula
Flexible Funding Programs - Congestion Mitigation and Air Quality Program - 23 USC 149		CMAQ provides funding to areas in nonattainment or maintenance for ozone, carbon monoxide, and/or particulate matter. States that have no nonattainment or maintenance areas still receive a minimum apportionment of CMAQ funding for either air quality projects or other elements of flexible spending. Funds may be used for any transit capital expenditures otherwise eligible for FTA funding as long as they have an air quality benefit.	Annual		X	×	Transportation project or program that is likely to contribute to the attainment or maintenance of a national ambient air quality standard	Formula
Flexible Funding Programs - Sur- face Transporta- tion Block Grant Program - 23 USC 133		Provides funding that may be used by states and localities for a wide range of projects to preserve and improve the conditions and performance of surface transportation, including highway, transit, intercity bus, bicycle and pedestrian projects.	Annual					Formula

FUNDING	FUNDING		FUNDING	ACTIVE	TRANSPORTAT	ION	PROJECT	COMPETITIVE
SOURCE	ORIGIN	PURPOSE/DESCRIPTION	CYCLE	INFRASTRUCTURE	NON- INFRASTRUCTURE	PLANNING	EXAMPLES	FORMULA
Areas of Persistant Poverty Program	FTA	In keeping with the U.S. Department of Transportation's focus on addressing the deteriorating conditions and disproportionately high fatality rates on our rural transportation infrastructure, FTA's Areas of Persistant Poverty Program supports projects that will address the transportation challenges faced by areas of persistent poverty.	June			×	Improve transit service and facilities in areas of persistent poverty	
Mobility for All Pilot Program Grants		This funding opportunity seeks to improve mobility options through employing innovative coordination of transportation strategies and building partnerships to enhance mobility and access to vital community services for older adults, individuals with disabilities, and people of low income.	January			×	Transportation projects with a focus on employing mobility management strategies, vehicle purchase, IT purchase, leasing equipment or a facility for use in public transportation etc	Competitive
Mobility on Demand (MOD) Sandbox Demonstration Program - 5312		Funds projects that promote innovative business models to deliver high quality, seamless and equitable mobility options for all travelers.	Annual			×	Private for-profit and not-for-profit organizations, including shared use mobility providers, and technology system suppliers Operators of transportation services, such as employee shuttle services, airport connector services, university transportation systems, or parking and tolling authorities	Competitive

FUNDING	FUNDING		FUNDING	ACTIVE 1	TRANSPORTATI	ON	PROJECT	COMPETITIVE/
SOURCE	ORIGIN	PURPOSE/DESCRIPTION	CYCLE	INFRASTRUCTURE	NON- INFRASTRUCTURE	PLANNING	EXAMPLES	FORMULA
<u>Our Town</u>	National Endow- ment for the Arts	Our Town is the National Endowment for the Arts' creative placemaking grants program. These grants support projects that integrate arts, culture, and design activities into efforts that strengthen communities by advancing local economic, physical, and/or social outcomes.	Aug-21		X		 Arts Engagement (Artist residency, art festivals, community co-creation of art, performances, public art) Cultural planning (district, asset, and art) 	Competitive

TABLE 6-14: State Funding Sources

FUNDING	FUNDING	DUDDOOF (DECORIDE OF	FUNDING	ACTIVE 1	TRANSPORTATI	ON	PROJECT	COMPETITIVE/
SOURCE	ORIGIN	PURPOSE/DESCRIPTION	CYCLE	INFRASTRUCTURE	NON- INFRASTRUCTURE	PLANNING	EXAMPLES	FORMULA
Clean Mobility Options	Air Resources Board	The Program makes \$20 million available for zero-emissions shared mobility projects (such as car sharing, Bicycle sharing, and ondemand sharing) in disadvantaged and low-income communities, including some tribal and affordable housing communities (California Climate Investments)	July	X			Bicycleshare programs "Quick build" right-of-way safety improvements for bicycles and scooters	Formula
Sustainable Transportation Equity Project (STEP)	Air Resources Board	The Program makes \$2 million available for planning and capacity building grants. Funding is intended to help low-income and disadvantaged communities identify residents' transportation needs and prepare to implement clean transportation and land use projects. The Program makes \$20 million available for one to three implementation block grants to fund clean transportation and land use projects in disadvantaged communities. Funded projects will work together to increase community residents' access to key destinations so they can get where they need to go without the use	August	X	X	X	New Bicycle routes (Class I, Class II, or Class IV) and supporting infrastructure Publicly-accessible Bicycle parking, storage, and repair infrastructure (e.g., Bicycle racks, Bicycle lockers, Bicycle repair kiosks) New walkways that improve mobility/access/safety of pedestrians (nonmotorized users) Street crossing enhancements, including accessible pedestrian signals	Competitive

FUNDING	FUNDING		FUNDING	ACTIVE	TRANSPORTATI	ON	PROJECT	COMPETITIVE/
SOURCE	ORIGIN	PURPOSE/DESCRIPTION	CYCLE	INFRASTRUCTURE	NON- INFRASTRUCTURE	PLANNING	EXAMPLES	FORMULA
Local Streets and Roads (LSR) Program	California Transporta- tion Commis- sion	The purpose of the program is to provide approximately \$1.5 billion per year to cities and counties for basic road maintenance, rehabilitation, and critical safety projects on the local streets and roads system.	Unavailable	X			Implement enhanced crosswalk signing and striping Create safety separation between motorists, bicyclists and pedestrians Design and construction of school access and safety improvements to six schools (SRTS)	Formula
Solutions for Congested Corridors (SCCP)	California Transporta- tion Commis- sion	The purpose of the program is to provide funding to achieve a balanced set of transportation, environmental, and community access improvements to reduce congestion throughout the state. This statewide, competitive program makes \$250 million available annually for projects that implement specific transportation performance improvements and are part of a comprehensive corridor plan by providing more transportation choices while preserving the character of local communities and creating opportunities for neighborhood enhancement.	Every Two Years	X			Construct Class I and Class II Bicycleways Pedestrian improvements and plaza at a transit station Intersection improvements	Competitive

FUNDING	FUNDING		FUNDING	ACTIVE 1	RANSPORTATI	ION	PROJECT	COMPETITIVE/
SOURCE	ORIGIN	PURPOSE/DESCRIPTION	CYCLE	INFRASTRUCTURE	NON- INFRASTRUCTURE	PLANNING	EXAMPLES	FORMULA
State Transportation Improve- ment Program (STIP)	California Transporta- tion Commis- sion/Cali- fornia De- partment of Trans- portation (Caltrans)	The STIP is the biennial five-year plan adopted by the Commission for future allocations of certain state transportation funds for state highway improvements, intercity rail, and regional highway and transit improvements. Local agencies should work through their Regional Transportation Planning Agency (RTPA), County Transportation Commission, or Metropolitan Planning Organization (MPO), as appropriate, to nominate projects for inclusion in the STIP.	Every Two Years	X			Bicycle/ped Overcrossing and Access Improvements and bicycle and pedestrian bridge Class I, II, III, & IV Bicycle lanes Multi-Use paths Complete Streets improvements	Competitive
<u>Urban Forestry</u> <u>Program</u>	California Depart- ment of Forestry and Fire Protection (CAL FIRE)	This program funds Urban Greening projects that result in the conversion of an existing built environment into green space that uses natural and green infrastructure approaches to create sustainable and vibrant communities.	Unavailable	X		×	Urban Forest Expansion and Improvement • Urban Forest Management Activities • Urban Wood and Biomass Utilization	Competitive
Infill Infrastruc- ture Grant Pro- gram for Small Jurisdictions	California Depart- ment of Housing and Com- munity Develop- ment	The purpose of the program is to provide grants for Capital Improvement Projects in support of Qualifying Infill Projects or Qualifying Infill Areas. Funding for this NOFA and program requirements are provided under Assembly Bill 101 (Stats. 2019, ch. 159, 20) and Part 12.5 (commencing with section 53559) of Division 31 of the Health and Safety Code.	Varies	X				Competitive

FUNDING	FUNDING		FUNDING	ACTIVE '	TRANSPORTAT	ION	PROJECT	COMPETITIVE/
SOURCE	ORIGIN	PURPOSE/DESCRIPTION	CYCLE	INFRASTRUCTURE	NON- INFRASTRUCTURE	PLANNING	EXAMPLES	FORMULA
Active Transportation Planning Grants (ATP)	California Depart- ment of Trans- portation (Caltrans)	Funding for Sidewalks, Bicycle lanes, trails, Safe Routes to School programs, and pedestrian and bicycle plans. The ATP consolidates existing federal and state transportation programs, including the Transportation Alternatives Program (TAP), Bicycle Transportation Account (BTA), and State Safe Routes to School (SRTS), into a single program.	July- September	X	X	X	Capital Improvements Bicycle, pedestrian Plan Safe Routes to School Plan Active Transportation Plan Education, Encouragement, and Enforcement Activities Quick-Build Project	Competitive
Transportation Development Act (TDA) Article 3 (SB 821)	California Depart- ment of Trans- portation (Caltrans)	The goal of this act is to improve existing public transportation services and encourage regional transportation coordination. TDA established two funding sources; the Local Transportation Fund (LTF), and the State Transit Assistance (STA) fund. Providing certain conditions are met, counties with a population under 500,000 (according to the 1970 federal census) may also use the LTF for local streets and roads, construction and maintenance. The STA funding can only be used for transportation planning and mass transportation purposes.	Annually • Article 3 Bicycle and Pedestrian projects and Article 3 Transit Stop Access Improvement Program.	X		×	Partners with member jurisdictions to apply for the Transit Stop Access Improvement Program for ADA bus stop improvements and amenities	Formula

FUNDING	FUNDING		FUNDING	ACTIVE	TRANSPORTATI	ON	PROJECT	COMPETITIVE/
SOURCE	ORIGIN	PURPOSE/DESCRIPTION	CYCLE	INFRASTRUCTURE	NON- INFRASTRUCTURE	PLANNING	EXAMPLES	FORMULA
Sustainable Transportation Planning Grants	California Depart- ment of Trans- portation (Caltrans)	The program includes \$29.5 million to encourage local and regional planning that furthers state goals, including, but not limited to, the goals and best practices cited in the Regional Transportation Plan Guidelines adopted by the California Transportation Commission.	Annually			×	Safe Routes to School Plan Active Transportation Plan Bicycle/ped Trail/Path Feasibility Study Complete Streets Plan Sustainable Communities Plan Transit-Oriented Development Plan First/Last Mile Connectivity Plan	Competitive
Local Highway Safety Improve- ment Program (HSIP)	California Depart- ment of Trans- portation (Caltrans)	United States Code 23 U.S.C 148 is a federal aid program to reduce traffic related fatalities by implementing infrastructure countermeasures that have nationally recognized crash reduction factors. Projects are identified on the basis of crash experierence, crash potential, crash rate, or other data-supportedmeans. The Caltrans Division of Local Assistance manages local agencies share of Californias HSIP funds.	Annually	X			Construction ready safety improvement projects consistent with the California Strategic HSIP without significant right of way taking, environmental review, or road realignment requirements.	Formula

FUNDING	FUNDING	PURPOSE/DESCRIPTION	FUNDING	ACTIVE	TRANSPORTATI	ON	PROJECT	COMPETITIVE/
SOURCE	ORIGIN	1 6111 662, 52661111 11611	CYCLE	INFRASTRUCTURE	NON- INFRASTRUCTURE	PLANNING	EXAMPLES	FORMULA
Urban Greening	California Natural Resources Agency	The Program supports the development of green infrastructure projects that reduce GHG emissions and provide multiple benefits. Must include at least one of the following: • Sequester and store carbon by planting trees • Reduce building energy use by strategically planting trees to shade buildings • Reduce commute vehicle miles traveled by constructing bicycle paths, bicycle lanes or pedestrian facilities that provide safe routes for travel between residences, workplaces, commercial centers, and schools. (California Climate Investments)	Unavailable	X			Non-motorized urban trails that provide safe routes for both recreation and travel between residences, workplaces, commercial centers, and schools Projects that expand or improve the usability of existing active transportation routes (e.g., walking or bicycle paths) or create new active transportation routes that are publicly accessible by walking Complete Green Streets	Competitive
Local Partnership Program - Competitive and Formulaic	California Transporta- tion Com- mission	The primary objective of this program is to provide funding to counties, cities, districts, and regional transportation agencies in which voters have approved fees or taxes dedicated solely to transportation improvements or that have imposed fees, including uniform developer fees, dedicated solely to transportation improvements. Funding includes \$200M/year to improve aging Infrastructure, Road Conditions, Active Transportation, Transit and rail, Health and Safety Benefits	March - June	X	X	X	Close sidewalk gap, install class II Bicycle lanes and cycle track, curb extensions, pedestrian enhancements, improvements to lighting and signage Construct 4 singlelane and 1 multi-lane roundabouts, and improvements to street, pedestrian and bicycle facilities Expressway pedestrian overcrossing	Both

FUNDING	FUNDING ORIGIN	PURPOSE/DESCRIPTION	FUNDING CYCLE	ACTIVE TRANSPORTATION			PROJECT	COMPETITIVE/
SOURCE				INFRASTRUCTURE	NON- INFRASTRUCTURE	PLANNING	EXAMPLES	FORMULA
State Highway Operations and Protection Program (SHOPP)	Caltrans Office of SHOPP Manage- ment	The Office of SHOPP Management is responsible for planning, developing, managing and reporting the four year SHOPP portfolio of projects. The Program is the State Highway System's "fix it first" program that funds repairs and preservation, emergency repairs, safety improvements, and some highway operational improvements on the State Highway System.	Unavailable	X			Upgrade sidewalks to ADA compliance Reconstruct damaged pavement Add Bicycle lanes to updated corridors Upgrade pedestrian push buttons, refresh striping, and improve pedestrian and bicycle access	
Office of Traffic Safety Grant Program	Office of Traffic Safety	The Program provides annual funds to prevent serious injury and death resulting from motor vehicle crashes so that all roadway users arrive at their destination safely. Funds can be used for bicycle and pedestrian safety	Due in January		X		Safety education and encourage Campaigns to promote safety SRTS safety programs	Competitive
Affordable Housing and Sustainable Communities Program	Strategic Growth Council and De- partment of Housing and Com- munity Develop- ment	The Program funds land-use, housing, transportation, and land preservation projects to support infill and compact development that reduce greenhouse gas emissions. The Program included \$550M in its latest round. (California Climate Investments)	February	X	X		Class I, II, III, & IV Bicycle facilities Active transportation projects to encourage connectivity to transit networks Bicycleways and sidewalks to affordable housing and transit center Install dedicated bicycle facilities Pedestrian facilities such as bulb-outs	Competitive

FUNDING	FUNDING ORIGIN	PURPOSE/DESCRIPTION	FUNDING CYCLE	ACTIVE TRANSPORTATION			PROJECT	COMPETITIVE/
SOURCE				INFRASTRUCTURE	NON- INFRASTRUCTURE	PLANNING	EXAMPLES	FORMULA
Local Partnership Grant Program	California Transporta- tion Com- mission	Improvements to transit facilities, including guideways, that expand transit services, increase transit ridership, improve transit safety, enhance access or convenience of the traveling public, or otherwise provide or facilitate a viable alternative to driving.	Summer		X		Alternative fuel buses acquisition Charging infrastructure to fuel/power alternative fuel buses Maintenance facility upgrades or construction of new O&M facilities Innovative fare payment systems New operational model Bus shelter improvements Fare collection upgrades	Both
Placemaking Grants	National Association of Realtors (NAR)	Placemaking means many things to different people, but NAR looks as placemaking as a way to make communities better places to live by transforming unused and underused sites and "eyesores" into welcoming destinations accessible to everyone in a community.	October		X		Amenities (street furniture, paint, signage, materials, landscaping, murals, etc.) Site preparation Artist fees	Competitive

FUNDING SOURCE	FUNDING ORIGIN	PURPOSE/DESCRIPTION	FUNDING CYCLE	ACTIVE TRANSPORTATION			PROJECT	COMPETITIVE/
				INFRASTRUCTURE	NON- INFRASTRUCTURE	PLANNING	EXAMPLES	FORMULA
Online Fundrasing Platform	IOBY	ioby stands for "in our backyards," but it also stands for taking care of each other, for civic participation, and for trusting neighbors to know what's best for the neighborhood. ioby gives local leaders the ability to crowdfund the resources they need to build real, lasting change from the ground up. Our crowdfunding platform helps connect local leaders with support and funding from their communities to make our neighborhoods more sustainable, healthier, greener, more livable, and more fun.	Ongoing		X		Clear air programs Clean water programs Climate change programs Compost programs Education programs Mutual Aid programs Open Space & Greening programs Public Health & Nutrition programs Recycling programs	
Transformative Climate Communities (TCC)	Strategic Growth Council/ Depart- ment of Conserva-		February	X				

TABLE 6-15: Local / Regional Funding Sources:

REGIONAL SOURCE	FUNDING ORIGIN	PURPOSE/ DESCRIPTION	FUNDING CYCLE
Measure A	Los Angeles County	Drafted to meet current and future park access and needs address inequities. An initiative to replace much-needed funding to build, maintain, and improve our local parks, access to parks, beaches, and open spaces	Annually
Measure M	Los Angeles County	Authorizes a new one-half cent sales tax starting in 2017 that will help fund major highway and transit projects and bicycle and pedestrian connections, Bicycle share and greenways.	Annually
Measure M Subregional Program (MSP)	Los Angeles County	Measure M subregional funds are programmed by the subregions' respective governing/planning entities. San Gabriel Valley COG administers MSP funds through the development of five-year subregional fund programming plans in the San Gabriel Valley.	Annually
Fastrak Reinvestment Program	LA Metro	Corridor reinvestment plan must provide a direct benefit to reducing congestion on the I-110 or I-10 such as transit and active transportation projects.	Annual grants
Measure W	Los Angeles County	A parcel tax that would increase L.A. County's local water supply, improve water quality, and invest in making communities greener and more livable. Focus on communities that are the most vulnerable to create green streets and complete streets.	Annually
SCAG Sustainable Community Program	Sourthern California Association of Governments (SCAG)	Planning grants to jurisdictions for technical assistance to complete important local and regional transportation planning efforts. Integrated Land Use: Sustainable Land Use Planning, Transit Oriented Development, Land Use & Transportation Integration. Active Transportation: Bicycle, Pedestrian and Safe Routes to School Plans Green Region: Natural Resource Plans, Climate Action Plans, Green House Gas Reduction programs	Annually

6.5 Measuring Implementation Progress with Performance Measures

The following are best practice performance measures, each of which are meant to quantify the impact and effectiveness of Vision Zero projects and programs. Identifying and employing several strategies will help the City update the public on progress and advance efforts for the upcoming year. The City must decide on the metrics that it deems the most important to allocate limited resources towards.

Ultimately, success will be reaching zero fatalities and serious injuries by 2027. Each year, the overarching goal is for collision trends to decrease, while increasing the mode split for walking and bicycling, which increases safety due to the "Safety in Numbers" phenomenon. Annually, tracking the following data points are key. Below are examples the City can use to assist with developing performance measures, organized by the six Es.



- » Number of Bicycle Rodeos held
- » Number of sixth grade students taught about bicycle safety
- » Percentage of sixth grade students in El Monte taught about bicycle safety



ENCOURAGEMENT

- » Number of events to promote quick-build installations.
- » Annual number of complete Safe Routes to School events or activities.
- » Number of people reached in Individualized Marketing campaign
- » Percentage of students or staff who arrive to and from school without using a car, citywide.



ENFORCEMENT

- » Number of vehicles ticketed for parking in bicycle lanes
- » Percent of streets where speed surveys have been conducted.
- » Number of sting operations conducted to enforce yielding to pedestrians in crosswalks
- » Number of sting operations conducted to enforce motorists complying with No Right Turn On Red



ENGINEERING

- » Number of quick-build installations at intersections or roadway segments.
- » Percent of total citywide street mileage dedicated to active transportation facilities (such as bicycle parking, street closures, Class I, II, & IV bicycle facilities, and complete sidewalk networks).
- » Percent of sidewalk and bicycle network gaps closed.
- » Number of CIP projects funded per year that address safety issues.
- » Percent of bicycle and sidewalk repairs completed, focusing on areas within 1/2 mile of a school or transit stop.
- » Percent of streets and intersections with traffic calming measures installed.
- » Percent of streets where posted speed limits have been reduced, focusing around schools and parks.
- Total miles of on-street bikeways defined by streets with clearly marked or signed bicycle accommodations.
- » Total miles of streets with pedestrian accommodations.
- » Number of missing or non-compliant curb ramps along City Streets.





- » Percent of bicycle networks in the most disadvantaged neighborhoods.
- » Number of grants funded per year that address equity-related safety issues.
- » Number of improved pedestrian infrastructure projects installed.
- » Number of intersections where signals have been optimized for people with disabilities and active transportation.

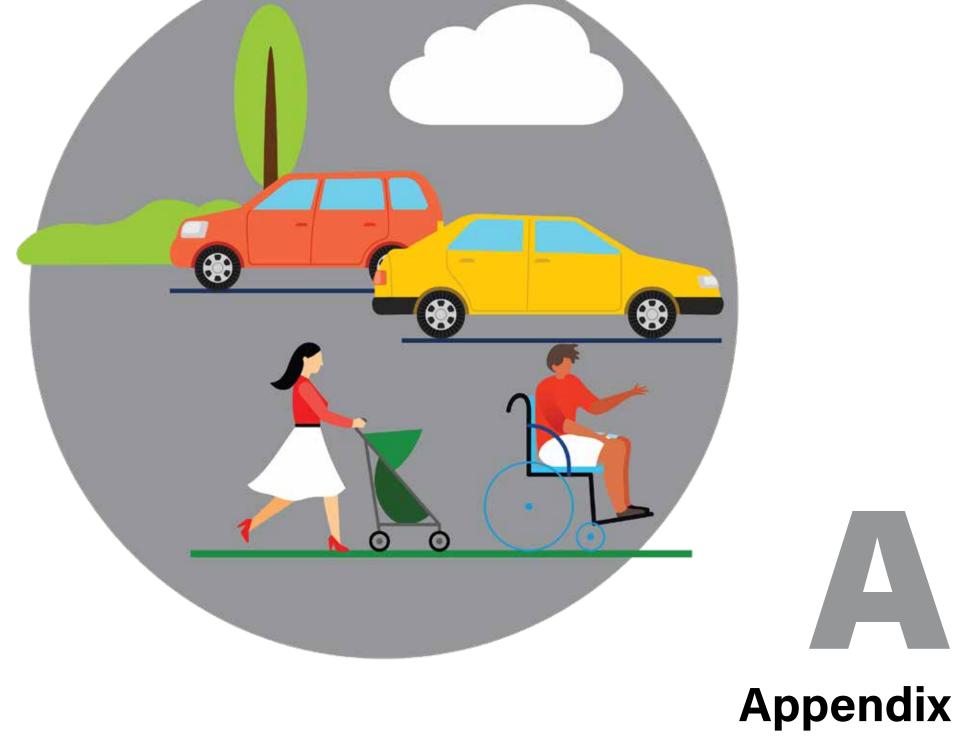


EVALUATION

- » Number of permanent bicycle and pedestrian counters installed
- » Number of manual counts performed for people walking and bicycling
- » Total number of motorist collisions, fatalities, and serious injuries by travel mode, age, sex, and race/ethnicity.
- Total number of pedestrian collisions, fatalities, and serious injuries by travel mode, age, sex, and race/ethnicity.
- Total number of bicycle collisions, fatalities, and serious injuries by travel mode, age, sex, and race/ethnicity.
- » Reduction of fatalities or serious injuries caused by collisions involving people walking and bicycling.
- » Percentage of new street projects that are multi-modal.
- » Traffic counts of all road users along major streets.

Endnote

¹Federal Highway Administration Analysis of Current Funding Mechanisms for Vision Zero Programs. https://safety.fhwa.dot.gov/local rural/training/fhwasa20025/chap3.cfm





A.1 High-Injury Network Overview

The following collision trees and hot spot maps show the less common collision types than shown in Chapter 2.

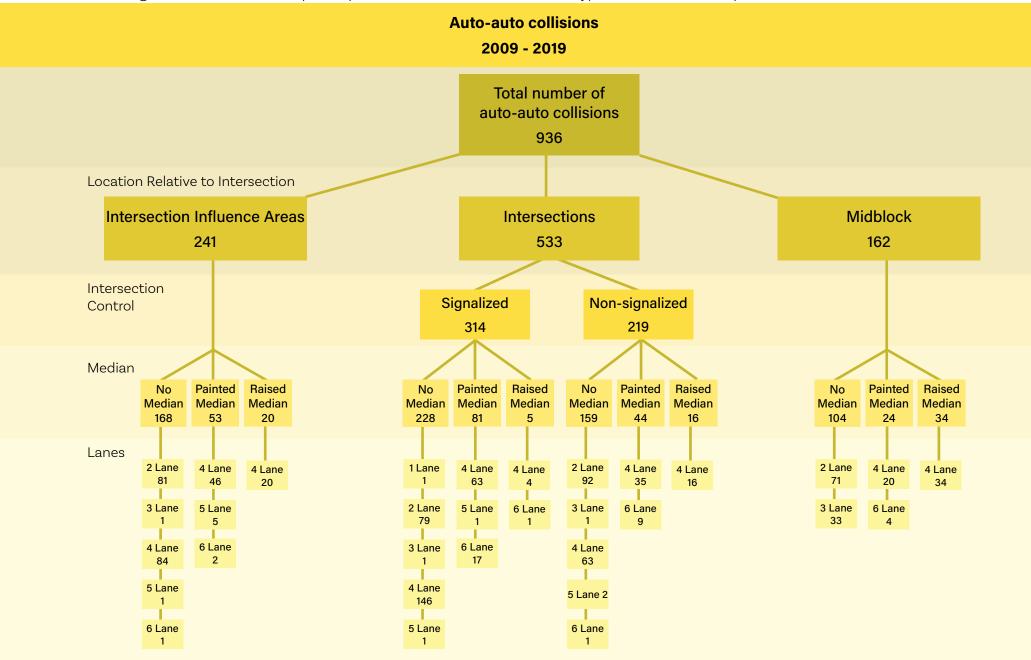


FIGURE A-1: Auto Intersection Influence Area Collisions ower Azusa Road Lower Azusa Road Valley Blvd Ramona Blvd Auto-only collisions Collisions at intersection influence areas with no median • 2 through-lanes (81) • 4 through-lanes (84) 0.5 All auto-only collisions at intersection influence areas 241 (60)

FIGURE A-2: Auto-Auto Signalized Intersection Collisions

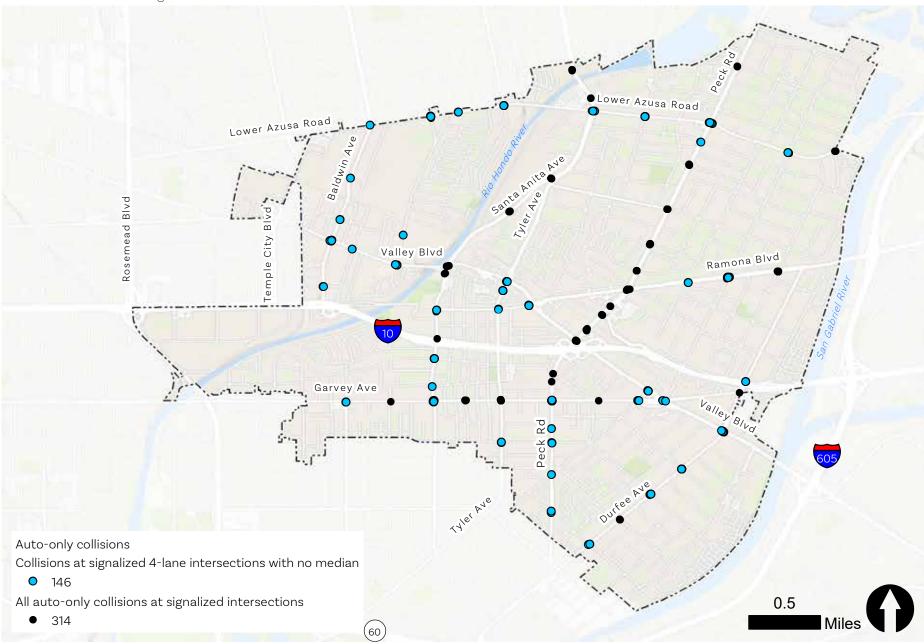
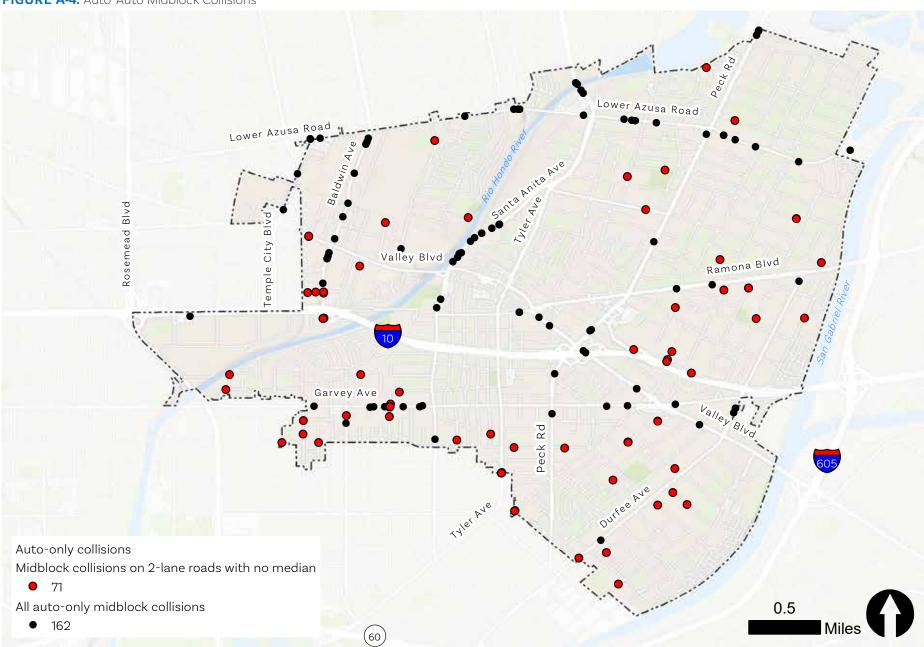
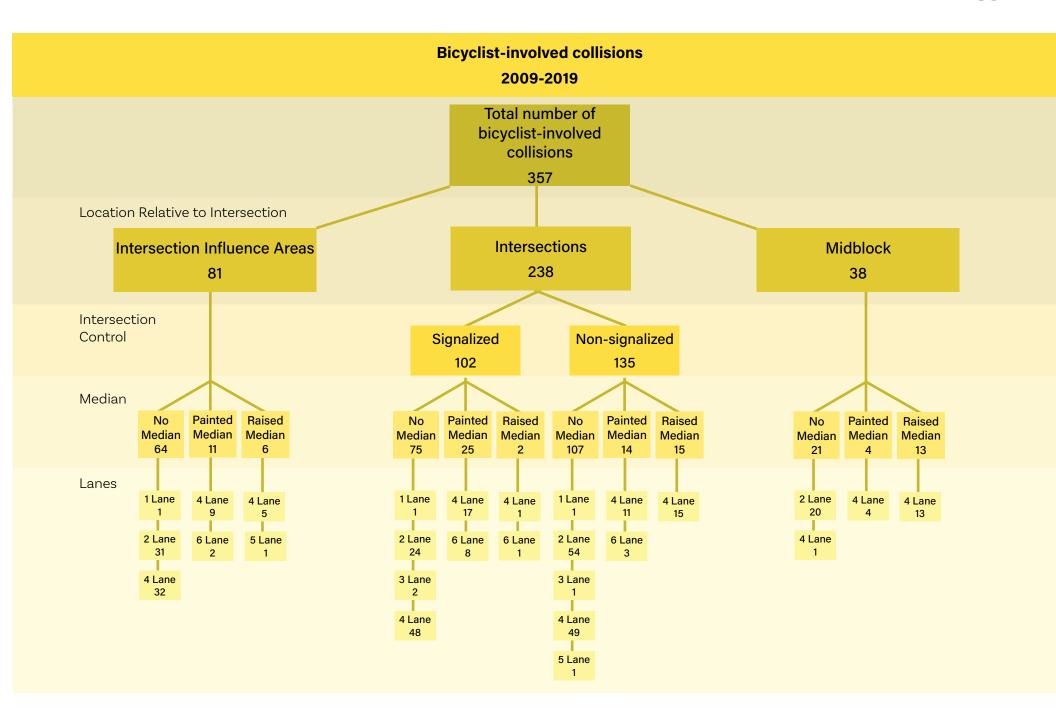


FIGURE A-3: Auto-Auto Non-Signalized Intersection Collisions Lower Azusa Road Lower Azusa Road emple City Valley Blvd Ramona Blvc Auto-only collisions Collisions @ non-signalized 2-lane intersections with no median All auto-only collisions at non-signalized intersections 0.5 • 219

FIGURE A-4: Auto-Auto Midblock Collisions





All bicycle-involved collisions @ intersection influence areas

FIGURE A-5: Bicycle Involved Intersection Influence Area Collisions Lower Azusa Road Lower Azusa Road Temple City Blv Valley Blvd Ramona Blvd eck Rd Bicycle-involved collisions Collisions @ intersection influence areas on 4-lane roads with no median **o** 32

0.5

A-8

FIGURE A-6: Bicycle Involved Signalized Intersection Collisions Lower Azusa Road Lower Azusa Road Valley Blvd Ramona Blvd Peck Rd Bicycle-involved collisions Collisions @ signalized 4-lane intersections with no median 0.5 All bicycle-involved collisions @ signalized intersections • 102

FIGURE A-7: Bicycle Involved Non-Signalized Intersection Collisions Lower Azusa Road Lower Azusa Road Temple City Blvd Valley Blvd Bicycle-involved collisions Collisions at non-signalized intersections with no median • 2 through-lanes (54) • 4 through-lanes (49) All bicycle-involved collisions at non-signalized intersections 0.5 135

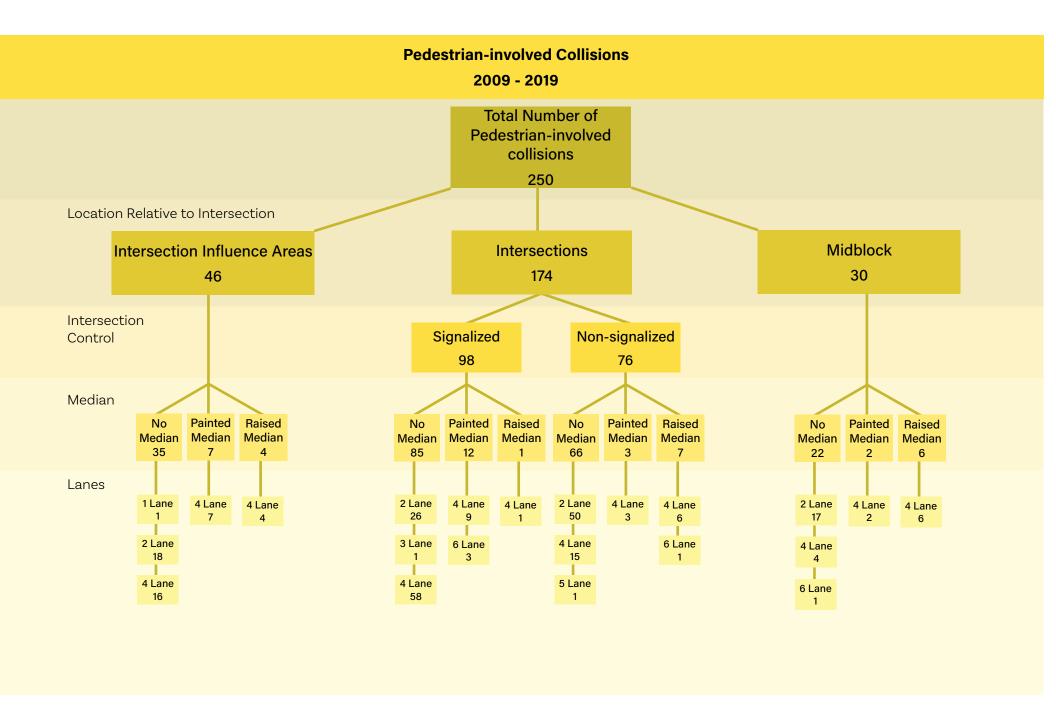
A-10

(60)

• 38

A-11





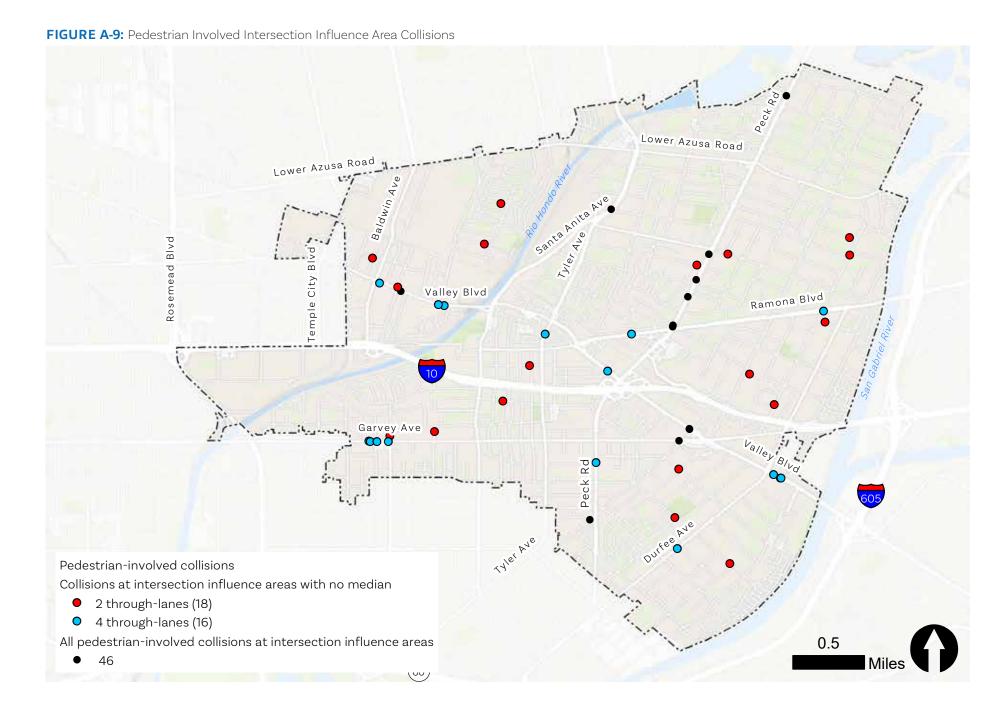


FIGURE A-10: Pedestrian Involved Signalized Intersection Collisions Lower Azusa Road Lower Azusa Road Temple City Blvd Valley Blvd Ramona Blvd 0 Pedestrian-involved collisions Collisions at signalized 4-lane intersections with no median **o** 58 0.5 All pedestrian-involved collisions at signalized intersections 98

FIGURE A-11: Pedestrian Involved Non-Signalized Intersection Collisions Lower Azusa Road Lower Azusa Road Baldwin Ave Temple City Valley Blvd Ramona Blvd Peck Rd Pedestrian-involved collisions Collisions at non-signalized 2-lane intersections with no median **250** 0.5 All pedestrian-involved collisions at non-signalized intersections • 76

FIGURE A-12: Pedestrian Involved Midblock Collisions Lower Azusa Road Lower Azusa Road Temple City Blvd Valley Blvd Ramona Blvd Peck Rd Pedestrian-involved collisions Midblock collisions on 2-lane roads with no median **1**7 0.5 All pedestrian-involved midblock collisions 30 (60)

A.2 Outreach Materials

FIGURE A-13: Project Factsheet





PROJECT TIMELINE



FACT SHEET

The El Monte Vision Zero Action Plan (EMVZAP) will provide the necessary tools and guidance to make bicycle and pedestrian environment safer for residents. Vision Zero is a fundamental shift in philosophy and approach to traffic safety that acknowledges systemic changes are needed in our traffic safety work to make meaningful progress.



ogram

The goals of the Vision Zero program are to:

- Develop and apply policies for increasing safety for all modes.
- Develop projects for implementation.

PROJECT GOALS

 Analyze the data and tell the story of how collision analysis and proven countermeasures can meet these goals.

By collecting, analyzing, and developing projects, this plan will provide the City of El Monte a roadmap for future safety planning and project development and more importantly, funding for implementation!

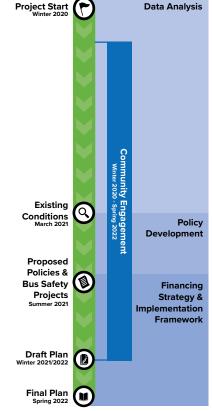


FIGURE A-14: Project Factsheet for Farmers Market





As part of the El Monte Vision Zero Plan, the City of El Monte and *Go Human* invite you to experience and share your feedback on proposed street safety improvements that make it safer and more enjoyable to walk, bike, and roll in El Monte. Visit us at the El Monte Farmers Market to provide input on where you would like to see bicycle and pedestrian improvements throughout the City.

Date: September 30, 2021

When: 5:00 p.m. - 9:00 p.m.

Where: El Monte Farmers Market (on Main Street between Santa Anita Ave and

Tyler Ave)

The El Monte Vision Zero Action Plan (EMVZAP) will provide the necessary tools and guidance to make bicycle and pedestrian environments safer for residents. Vision Zero seeks to eliminate all traffic fatalities and severe injuries, while increasing safe, healthy, equitable mobility for all.

PROJECT GOALS

- Analyze where and why crashes are occurring in El Monte
- Identify projects and programs to reduce crashes and eliminate trafficrelated fatalities and serious injuries
- Develop and apply policies for increasing safety for all modes of transportation.
- Develop traffic safety projects for implementation.











Your safety is our priority. We want to hear from you!

Safety is our priority. We want to hear from you!

FIGURE A-15: Social Media Posts on El Monte Instagram





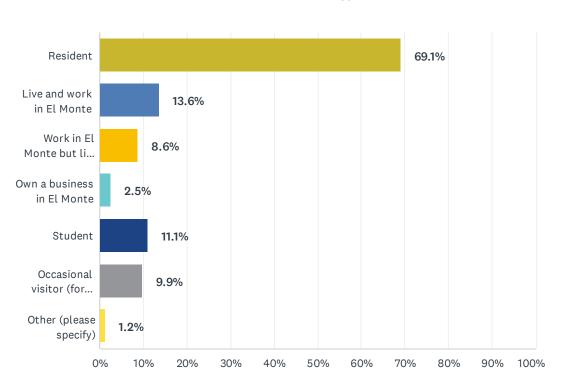




A.3 Survey Results

Q1 How would you best describe your relationship with the City of El Monte? Check all that apply.



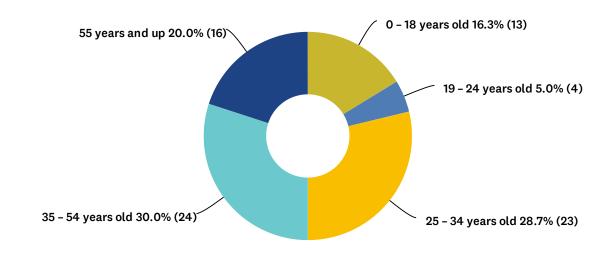


ANSWER CHOICES	RESPONSES	
Resident	69.1%	56
Live and work in El Monte	13.6%	11
Work in El Monte but live outside city limits	8.6%	7
Own a business in El Monte	2.5%	2
Student	11.1%	9
Occasional visitor (for example, family, friends, recreation, special events)	9.9%	8
Other (please specify)	1.2%	1
Total Respondents: 81		
Total Respondents. 01		

#	OTHER (PLEASE SPECIFY)	DATE
1	Immigrant	5/18/2021 7:29 AM

Q2 What is your age?

Answered: 80 Skipped: 1

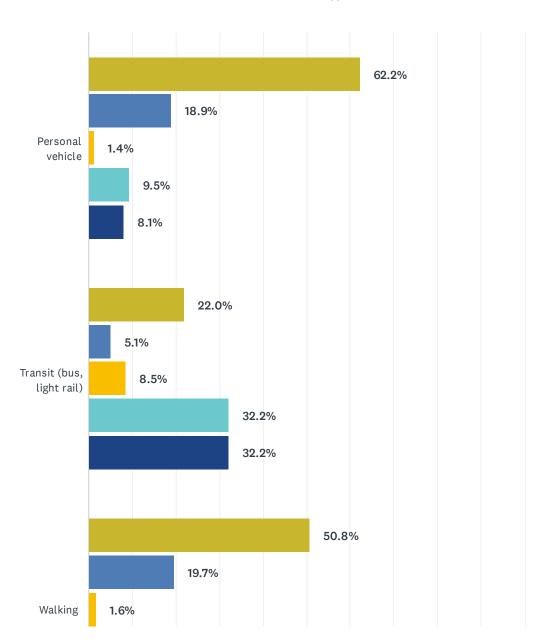


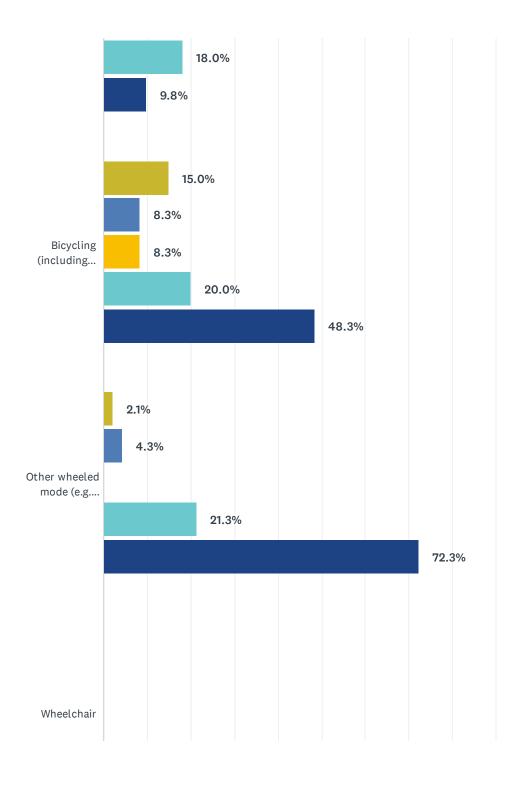
ANSWER CHOICES	RESPONSES	
0 – 18 years old	16.3%	13
19 – 24 years old	5.0%	4
25 – 34 years old	28.7%	23
35 – 54 years old	30.0%	24
55 years and up	20.0%	16
TOTAL		80

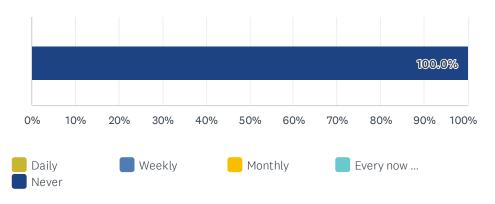


Q3 How frequently do you use the following transportation modes?





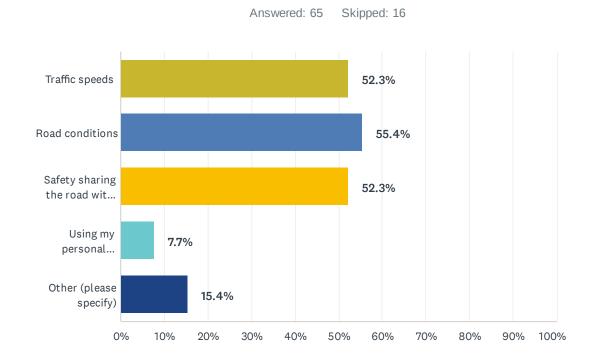




	DAILY	WEEKLY	MONTHLY	EVERY NOW AND THEN	NEVER	TOTAL
Personal vehicle	62.2%	18.9%	1.4%	9.5%	8.1%	
	46	14	1	7	6	74
Transit (bus, light rail)	22.0%	5.1%	8.5%	32.2%	32.2%	
	13	3	5	19	19	59
Walking	50.8%	19.7%	1.6%	18.0%	9.8%	
	31	12	1	11	6	61
Bicycling (including electric)	15.0%	8.3%	8.3%	20.0%	48.3%	
	9	5	5	12	29	60
Other wheeled mode (e.g. skateboard, scooter, etc.)	2.1%	4.3%	0.0%	21.3%	72.3%	
	1	2	0	10	34	47
Wheelchair	0.0%	0.0%	0.0%	0.0%	100.0%	
	0	0	0	0	47	47

#	OTHER (PLEASE SPECIFY)	DATE
1	Getting rides	5/18/2021 7:29 AM

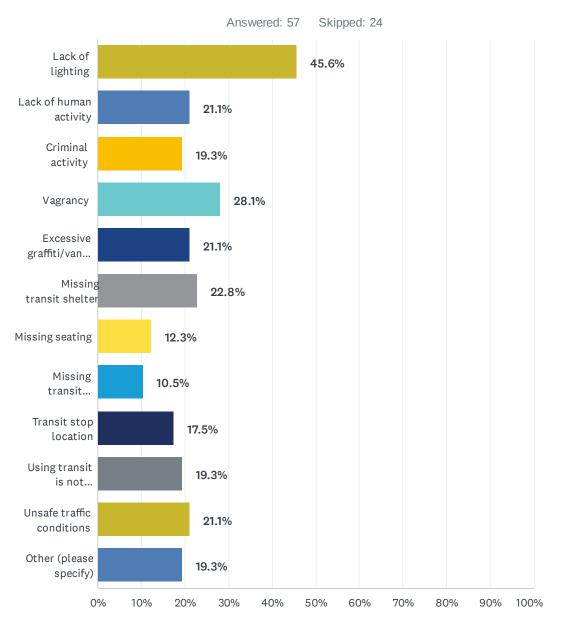
Q4 Your top concerns related to personal motor vehicle are:



ANSWER CHOICES	RESPONSES	
Traffic speeds	52.3%	34
Road conditions	55.4%	36
Safety sharing the road with bikes and other wheeled vehicles	52.3%	34
Using my personal vehicle is not convenient	7.7%	5
Other (please specify)	15.4%	10
Total Respondents: 65		

#	OTHER (PLEASE SPECIFY)	DATE
1	too easy to drive	10/5/2021 3:14 PM
2	loud cars	10/5/2021 2:59 PM
3	cyclist not visible in early hours	10/5/2021 2:57 PM
4	transients run in front of me	10/5/2021 2:37 PM
5	congestion	10/5/2021 2:03 PM
6	not compliant with stops	10/5/2021 2:01 PM
7	safety of peds noice = speeds	10/5/2021 1:50 PM
8	Dangerous Drivers	6/7/2021 3:52 PM
9	When people purposely throw their vehicles and claim they didn't see you. Makes me real angry.	5/18/2021 7:38 AM
10	Safety of Intersections - particularly uncontrolled turning	5/11/2021 12:40 PM

Q5 Your top concerns related to transit (bus, light rail) are:

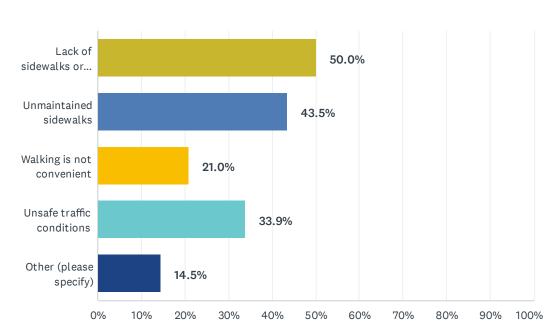


ANSWER CHOICES	RESPONSES	
Lack of lighting	45.6%	26
Lack of human activity	21.1%	12
Criminal activity	19.3%	11
Vagrancy	28.1%	16
Excessive graffiti/vandalism	21.1%	12
Missing transit shelter	22.8%	13
Missing seating	12.3%	7
Missing transit wayfinding or scheduling information	10.5%	6
Transit stop location	17.5%	10
Using transit is not convenient	19.3%	11
Unsafe traffic conditions	21.1%	12
Other (please specify)	19.3%	11
Total Respondents: 57		

#	OTHER (PLEASE SPECIFY)	DATE
1	Ramona/ people zoom through	10/5/2021 2:59 PM
2	homeless use our shelters	10/5/2021 2:44 PM
3	trash	10/5/2021 1:50 PM
4	Social distancing	8/30/2021 5:43 PM
5	never used transit	8/21/2021 2:47 PM
6	Unsafe pedestrians in danger walking thru gate that's busted which crosses bus and sheriff get entrance and exit	7/20/2021 4:41 AM
7	Infrequent service or bus stops running too early	6/7/2021 3:52 PM
8	Many El Monte trolley stops do not have signs, hard to find.	6/2/2021 11:22 PM
9	Trolley services sometimes I believe they are properly owned. It's difficult to make it to Telstar Ave. or Division 9 gateway. From the Metrolink station, simply by asking questions. Some bus drivers don't even speak ESL. Can I repeat the same question three times? and receive an Haaa! For an answer	5/18/2021 7:38 AM
10	Better safety and public signage	5/11/2021 2:06 PM
1-2 18 [⊥]	Infrequent service	5/6/2021 4:42 PM

Q6 Your top concerns related to walking are:



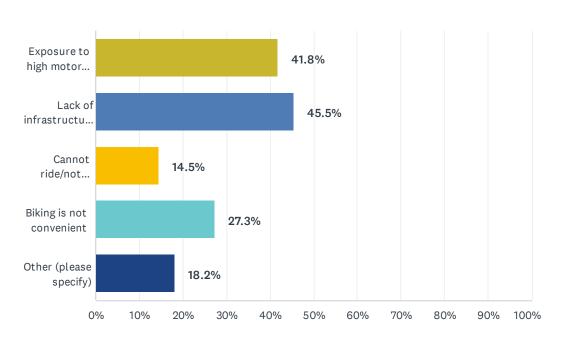


ANSWER CHOICES	RESPONSES	
Lack of sidewalks or disconnected sidewalks	50.0%	31
Unmaintained sidewalks	43.5%	27
Walking is not convenient	21.0%	13
Unsafe traffic conditions	33.9%	21
Other (please specify)	14.5%	9
Total Respondents: 62		

#	OTHER (PLEASE SPECIFY)	DATE
1	lack of lighting	10/6/2021 9:10 AM
2	transients	10/5/2021 3:04 PM
3	homelessness	10/5/2021 2:59 PM
4	lots of transients	10/5/2021 2:57 PM
5	alot of areas do not have the flashing light for crossing, esp. North	10/5/2021 1:58 PM
6	crossings cleanliness	10/5/2021 1:50 PM
7	laziness	8/30/2021 5:46 PM
8	Exposure of pedestrians using bike trail gate passing thru private property onto tod development next door Calle the gateway yo the exchange	7/20/2021 4:41 AM
9	I follow the rules and watch where I am going no issues walking.	6/15/2021 1:43 AM

Q7 Your top concerns related to biking are:

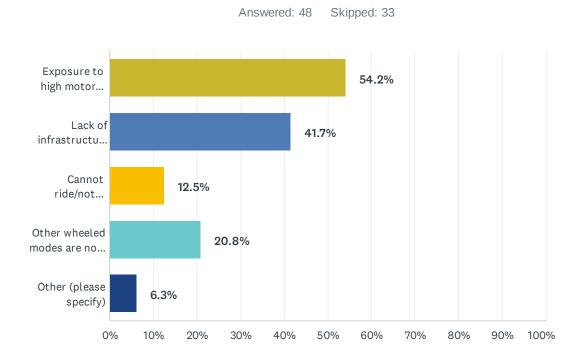




ANSWER CHOICES	RESPONSES	
Exposure to high motor vehicle speeds	41.8%	23
Lack of infrastructure for bikes (i.e. bike lanes/shared use paths)	45.5%	25
Cannot ride/not comfortable riding a bike	14.5%	8
Biking is not convenient	27.3%	15
Other (please specify)	18.2%	10
Total Respondents: 55		

#	OTHER (PLEASE SPECIFY)	DATE
1	speeding cars	10/5/2021 2:59 PM
2	no infrastructure low visability	10/5/2021 2:57 PM
3	not a lot of infrastructure	10/5/2021 2:44 PM
4	biking on sidewalks	10/5/2021 2:01 PM
5	lazy	8/30/2021 5:46 PM
6	Dangerous allowing public to access private property being a multifamily development	7/20/2021 4:41 AM
7	Cyclists when they follow the rules and obey the traffic laws have no issues. Maybe they should stay to the right and walk their bikes across busy intersections rather than mix with cars and run stops	6/15/2021 1:43 AM
8	Reckless drivers	6/7/2021 3:52 PM
9	Citations with a good lawsuit will solve the problem.	5/18/2021 7:38 AM
10	Adults riding bikes on sidewalks.	5/17/2021 8:14 PM

Q8 Your top concerns related to other wheeled modes, such as e-scooters and skateboards (not including wheelchair) are:

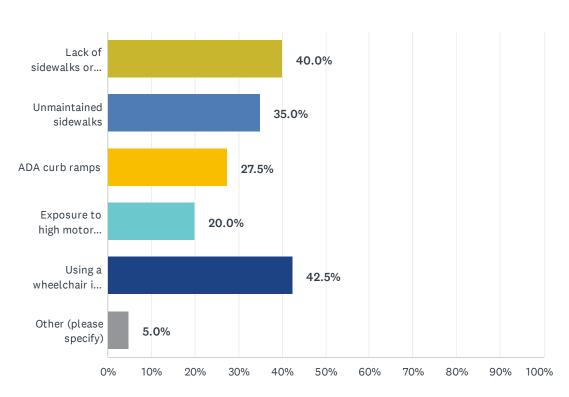


ANSWER CHOICES	RESPONSES	
Exposure to high motor vehicle speeds	54.2%	26
Lack of infrastructure (i.e. bike lanes/shared use paths)	41.7%	20
Cannot ride/not comfortable	12.5%	6
Other wheeled modes are not convenient	20.8%	10
Other (please specify)	6.3%	3
Total Respondents: 48		

#	OTHER (PLEASE SPECIFY)	DATE
1	When they follow the laws and are giving the right away to regular traffic I see no issues. But they also run lights and switch between sidewalks and streets to avoid stopping for lights and signs. Failure to yield to traffic is their biggest problem.	6/15/2021 1:43 AM
2	Another lawsuit, to pay medical bills. Tony Hawks it's a hero!	5/18/2021 7:38 AM
3	Needs more even sidewalks and/or bike lanes	5/11/2021 2:06 PM

Q9 Your top concerns related to using a wheelchair are:

Answered: 40 Skipped: 41

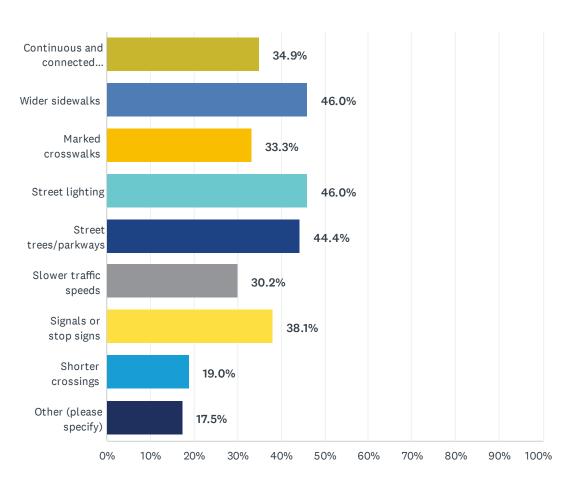


ANSWER CHOICES	RESPONSES	
Lack of sidewalks or disconnected sidewalks	40.0%	16
Unmaintained sidewalks	35.0%	14
ADA curb ramps	27.5%	11
Exposure to high motor vehicle speeds	20.0%	8
Using a wheelchair is not necessary for me to travel to my destinations	42.5%	17
Other (please specify)	5.0%	2
Total Respondents: 40		

#	OTHER (PLEASE SPECIFY)	DATE
1	Don't use	10/6/2021 9:10 AM
2	I work with students with disabilities and sometimes the light poles and signage takes up too much space on the sidewalk to be able to go around (i.e. Santa Anita and Ramona)	5/6/2021 2:56 PM

Q10 What would encourage you to walk more in El Monte?

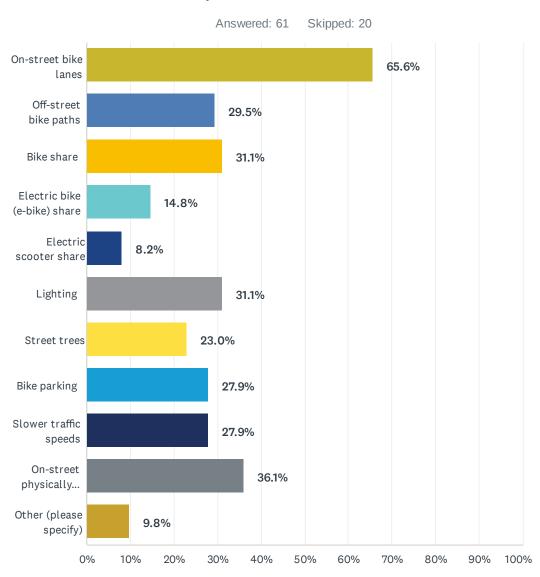




ANSWER CHOICES	RESPONSES	
Continuous and connected sidewalks	34.9%	22
Wider sidewalks	46.0%	29
Marked crosswalks	33.3%	21
Street lighting	46.0%	29
Street trees/parkways	44.4%	28
Slower traffic speeds	30.2%	19
Signals or stop signs	38.1%	24
Shorter crossings	19.0%	12
Other (please specify)	17.5%	11
Total Respondents: 63		

#	OTHER (PLEASE SPECIFY)	DATE
1	destinations	10/5/2021 3:16 PM
2	police enforcement	10/5/2021 2:40 PM
3	more destinations	10/5/2021 2:15 PM
4	policing	10/5/2021 2:03 PM
5	its too hot	10/5/2021 2:01 PM
6	Safety measures	10/5/2021 1:53 PM
7	Trash	10/5/2021 1:49 PM
8	I don't live in El Monte, jut work in the city	8/21/2021 2:49 PM
9	No public access	7/20/2021 4:45 AM
10	Police on paths and clean trails	6/15/2021 1:52 AM
11	A Liquor store in every apple!	5/18/2021 7:42 AM

Q11 What would make it easier for you to bike more or use other non-motorized wheeled transportation in El Monte?

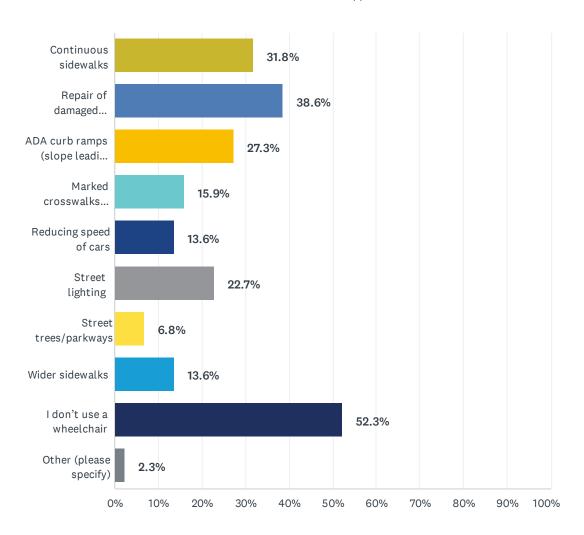


ANSWER CHOICES	RESPONSES	
On-street bike lanes	65.6%	40
Off-street bike paths	29.5%	18
Bike share	31.1%	19
Electric bike (e-bike) share	14.8%	9
Electric scooter share	8.2%	5
Lighting	31.1%	19
Street trees	23.0%	14
Bike parking	27.9%	17
Slower traffic speeds	27.9%	17
On-street physically separated bike lanes	36.1%	22
Other (please specify)	9.8%	6
Total Respondents: 61		

#	OTHER (PLEASE SPECIFY)	DATE
1	a skate park cuz I like skating	10/5/2021 1:56 PM
2	no uselessness	10/5/2021 1:52 PM
3	Trash	10/5/2021 1:49 PM
4	I don't live in El Monte	8/21/2021 2:49 PM
5	Not they private property	7/20/2021 4:45 AM
6	enforced Bike traffic laws. Keep people from causing traffic problems because bikes seem to believe the world should stop for them when they dont obey laws	6/15/2021 1:52 AM

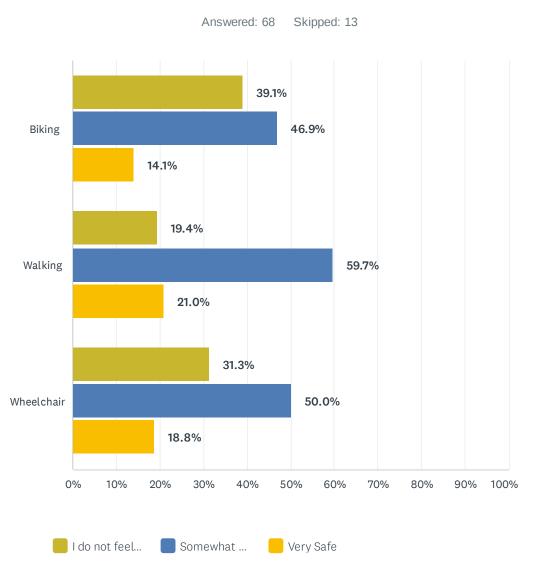
Q12 What would make it easier for you to use a wheelchair or to get to and around El Monte?





ANSWER CHOICES	RESPONSES	
Continuous sidewalks	31.8%	14
Repair of damaged sidewalks	38.6%	17
ADA curb ramps (slope leading to street from sidewalk)	27.3%	12
Marked crosswalks (clearly painted lines on pavement)	15.9%	7
Reducing speed of cars	13.6%	6
Street lighting	22.7%	10
Street trees/parkways	6.8%	3
Wider sidewalks	13.6%	6
I don't use a wheelchair	52.3%	23
Other (please specify)	2.3%	1
Total Respondents: 44		

Q13 How safe do you feel when using these modes?





	I DO NOT FEEL SAFE AT ALL	SOMEWHAT SAFE	VERY SAFE	TOTAL	WEIGHTED AVERAGE
Biking	39.1% 25	46.9% 30	14.1% 9	64	2.50
Walking	19.4% 12	59.7% 37	21.0% 13	62	3.03
Wheelchair	31.3% 10	50.0% 16	18.8% 6	32	2.75

Q14 Do you have any additional comments?

Answered: 18 Skipped: 63

#	RESPONSES	DATE
1	need more lighting and wider to feel safer	10/6/2021 9:35 AM
2	homelessness; lack of lighting, no tree shades; no safe crossing and car speed is too fast	10/5/2021 3:13 PM
3	more security to be able to walk	10/5/2021 3:05 PM
4	I like to thank the City for resurfacing the intersection of Ramona/Valley	10/5/2021 2:57 PM
5	lots of transients scaring away clients, pedestrians. Transients jump in front of me while driving in the street.	10/5/2021 2:40 PM
6	more police patrols	10/5/2021 2:27 PM
7	clean up the sidewalk more	10/5/2021 2:13 PM
8	There needs to be bike lane on Santa Anita between Garvey Ave and Fern Ave. It's dangerous for pedestrians walking, vehicles pulling in and out of driveways, people on bicycles or scooter, and not ADA safe or friendly for wheelchair users.	10/3/2021 8:33 PM
9	Are children out in danger with these transients running the streets using easement abatement access that should be for residents or fire accrues only they the exchange at gateway	
10	We shouldnt spend millions to make special accommodations for Bikes when they wont follow rules anyways. They ride outside the lanes already made for them, they also impede traffic by not staying right when they are to share the road with cars. They also cause more of their own accidents by not stopping at light or failure to yield to traffic Ticket riders who dont obey traffic stops and dont wait for the car in front of them to make their turns.	6/15/2021 1:52 AM
11	The city should install protected bike lanes to El Monte Station, not sharrows. I still get honked at riding on Ramona with Sharrows (shared lane markings)	
12	Trash pick up on sidewalks, mattresses, couches& tires etc.	5/18/2021 9:16 AM
13	Filthy Town! They only broom and Cady Main street. Was true 30 yrs. Ago, and some how they're doing it again.	5/18/2021 7:42 AM
14	There are several streets that don't have sidewalks, and many residential streets need repaving	5/17/2021 8:19 PM
15	I walk everyday (2-4 miles) and at least once I week cars run through stop signs without slowing down.	5/11/2021 8:40 PM
16	Looking at the incident map, the data seems misleading for the Arden Dr./Lower Azusa intersection. In 2018 alone there were multiple injury accidents. However, that intersection is a shared jurisdiction zone meaning some reports likely live with LASD and may not be in the map. The uncontrolled left turns there result in multiple incidents annually.	
17	I would like to see protected bike lanes and more trees in El Monte	5/6/2021 4:44 PM
18	Please take into consideration wider sidewalks so that wide wheelchairs can maneuver around signs/lights/poles. There also needs to be more trolley signs for the El Monte Trolley Routes. A lot of the stops or pick up sites don't have signage.	5/6/2021 2:59 PM